

0001

1 AFTERNOON SESSION 2:05 P.M.
2 WEDNESDAY, JANUARY 27, 1999
3 (THE FOLLOWING PROCEEDINGS WERE HELD IN
4 THE COURTROOM, IN THE PRESENCE OF THE JURY)
5 THE COURT: GOOD AFTERNOON, EVERYBODY. MR.
6 OHLEMAYER, WHAT'S NEXT ON OUR AGENDA?
7 MR. OHLEMAYER: YES. DR. WILLIAM WARREN,
8 W-A-R-R-E-N.

9 THE COURT: THE FIRST NAME WILLIAM?

10 MR. OHLEMAYER: WILLIAM.

11 THE COURT: OKAY.

12 TESTIMONY OF

13 WILLIAM HOWARD WARREN, M.D.,

14 A WITNESS CALLED ON BEHALF OF THE DEFENDANT, HAVING BEEN
15 DULY SWORN, TESTIFIED AS FOLLOWS:

16 THE CLERK: PLEASE STATE YOUR NAME.

17 THE WITNESS: WILLIAM HOWARD WARREN.

18 THE CLERK: PLEASE SPELL YOUR NAME.

19 THE WITNESS: MY LAST NAME IS W-A-R-R-E-N.

20 THE CLERK: IS WILLIAM W-I-L-L-I-A-M?

21 THE WITNESS: CORRECT.

22 THE CLERK: AND HOWARD IS H-O-W-A-R-D?

23 THE CLERK: THAT'S CORRECT.

24 THE CLERK: THANK YOU. PLEASE TAKE THE STAND.

25 DIRECT EXAMINATION

26 BY MR. OHLEMAYER: Q. GOOD AFTERNOON, DOCTOR.

27 A. GOOD AFTERNOON.

28 JUDITH ANN OSSA, CSR NO. 2310

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1 Q. TELL US WHAT YOU DO.

2 A. I'M A GENERAL THORACIC SURGEON.

3 Q. AND WHERE DO YOU PRACTICE?

4 A. I PRACTICE IN CHICAGO AT THREE HOSPITALS. THE
5 PRIMARY HOSPITAL IS RUSH PRESBYTERIAN AND ST. LUKE'S MEDICAL
6 CENTER, AND ALSO AT COOK COUNTY HOSPITAL AND WEST SUBURBAN
7 HOSPITAL MEDICAL CENTER.

8 Q. WHAT SORT OF --IT'S PROBABLY A BAD QUESTION.

9 WHAT SORT OF HOSPITALS ARE THOSE? IS THERE ANYTHING UNIQUE
10 OR DIFFERENT ABOUT ONE COMPARED TO THE OTHER?

11 A. TWO OF THOSE THREE ARE TEACHING HOSPITALS.

12 Q. WHAT DOES THAT MEAN?

13 A. AT RUSH PRESBYTERIAN AND ST. LUKE'S MEDICAL
14 CENTER, WE HAVE A GENERAL THORACIC AND WE HAVE A
15 CARDIOVASCULAR TRAINING PROGRAM, WHERE RESIDENTS COME TO
16 TAKE ADDITIONAL TRAINING IN OPEN HEART AND CHEST SURGERY AND
17 VASCULAR SURGERY, IN ORDER TO TAKE SPECIAL CERTIFICATION AND
18 BOARDS IN THOSE FIELDS.

19 Q. I TAKE IT THORACIC -- T-H-O-R-A-C-I-C --

20 A. CORRECT.

21 Q. -- IS A SPECIALTY IN SOME SENSE?

22 A. YES. THE FIELD OF CHEST SURGERY TODAY IS REALLY
23 BROKEN DOWN INTO TWO PARTS, CARDIAC AND THE NONCARDIAC.

24 PRACTICALLY SPEAKING, MANY PROGRAMS DON'T MAKE A
25 DISTINCTION AND THE SURGEONS DO EVERYTHING. IN MY
26 INSTITUTION, THE SURGEONS DO EITHER GENERAL THORACIC
27 SURGERY, THAT IS, EVERYTHING APART FROM THE HEART, OR THEY
28 SPECIALIZE IN HEART SURGERY. THE TRAINING IS THE SAME AND

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1 THE EXAMS ARE THE SAME.

2 I HAVE SUBSPECIALIZED IN CHEST SURGERY AND DO

3 JUST GENERAL THORACIC, WHICH IS PRIMARILY LUNG, CHEST WALL
4 AND ESOPHAGUS.

5 Q. AS OPPOSED TO HEART SURGERY?

6 A. AS OPPOSED TO HEART SURGERY.

7 Q. CAN YOU DESCRIBE FOR US YOUR FORMAL EDUCATION.

8 A. WELL, I WAS BORN AND RAISED IN CANADA. I WENT TO
9 THE UNIVERSITY OF TORONTO FOR MY UNDERGRADUATE TRAINING, AND
10 MY MEDICAL SCHOOL TRAINING WAS IN TORONTO AS WELL.

11 Q. DID YOU DO ANY SORT OF INTERNSHIP OR RESIDENCY
12 AFTER MEDICAL SCHOOL?

13 A. YES. I DID A STRAIGHT INTERNSHIP IN SURGERY AT
14 THE TORONTO GENERAL HOSPITAL, AND WENT TO A FOUR-YEAR
15 PROGRAM IN GENERAL SURGERY.

16 Q. AND WHERE WAS THAT PROGRAM?

17 A. AT THE TORONTO GENERAL HOSPITAL.

18 Q. AND THEN, DID YOU AT SOME POINT -- WHAT HAPPENS
19 THEN IN TERMS OF YOUR TRAINING? ARE YOU THEN OUT WORKING
20 OR --

21 A. WELL, THEN YOU'RE BOARD-ELIGIBLE, AND I TOOK MY
22 BOARDS IN GENERAL SURGERY IN CANADA AND THE UNITED STATES.

23 SINCE I WANTED TO BE A CARDIOTHORACIC SURGEON, I
24 HAD TO GO ON AND DO ADDITIONAL TRAINING, AND I CAME TO
25 CHICAGO FOR THAT.

26 Q. YOU SAID YOU WERE BOARD-ELIGIBLE.

27 TELL US WHAT THAT MEANS.

28 A. WELL, I'M BOARD-CERTIFIED. "BOARD-ELIGIBLE"
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1 MEANS THAT YOU HAVE GONE THROUGH THE TRAINING, THAT YOU'RE
2 ABLE TO SIT THE EXAMS.

3 "BOARD-CERTIFIED" MEANS THAT YOU HAVE ACTUALLY
4 TAKEN THOSE EXAMS AND PASSED THOSE EXAMS.

5 Q. AND ARE YOU BOARD-CERTIFIED IN THORACIC SURGERY?

6 A. YES, I AM.

7 Q. DO YOU HAVE A CERTIFICATION IN THE MORE GENERAL
8 SURGERY TOO?

9 A. YES, I DO.

10 Q. AND THEN A SIMILAR CERTIFICATION IN CANADA ALSO?

11 A. CORRECT.

12 Q. WOULD YOU DESCRIBE FOR US THEN THE SPECIALIZED
13 TRAINING OR STUDY YOU DID IN CHICAGO.

14 A. WELL, I ALSO HAD AN INTEREST IN PATHOLOGY, IN
15 ADDITION TO GENERAL THORACIC SURGERY. SO I CAME TO
16 CHICAGO.

17 I ELECTED TO TAKE A YEAR OF SPECIAL STUDY AND
18 RESEARCH ON LUNG TUMORS BEFORE I WENT ON TO CONTINUE MY
19 TRAINING IN CARDIOTHORACIC SURGERY.

20 Q. PATHOLOGY IS A DIFFERENT SPECIALTY OF MEDICINE
21 THAN SURGERY?

22 A. YES, IT IS.

23 Q. WHY IS IT THAT YOU WERE INTERESTED IN PATHOLOGY
24 IF YOU WANTED TO BE A SURGEON?

25 A. WELL, I THINK IT HELPS A SURGEON TO UNDERSTAND
26 PATHOLOGY. IN FACT, IN THE PAST, IT WAS A VERY INTEGRAL
27 PART OF THE TRAINING PROGRAM. WHEN YOU OPEN A CHEST AND YOU
28 SEE A TUMOR, IT HELPS TO HAVE SEEN THAT TUMOR GROSSLY AND

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1 MICROSCOPICALLY, AND HAVING STUDIED THOSE TUMORS AND SEEN
2 OTHER CASES OF THOSE TUMORS.

3 THE MORE PATHOLOGY EXPERIENCE YOU CAN GET,
4 PARTICULARLY RELATED TO YOUR FIELD, I THINK THE BETTER
5 SURGEON YOU ARE.

6 Q. YOU MENTIONED SEEING THINGS MICROSCOPICALLY. WE
7 TALKED A LITTLE BIT ABOUT THAT IN THIS TRIAL. YOU ALSO
8 MENTIONED SEEING THINGS GROSSLY.

9 WHAT DO YOU MEAN BY "SEEING THINGS GROSSLY"?

10 A. WELL, THE ENTIRE SPECIMEN ARRIVES IN PATHOLOGY,
11 ATTACHED TO SURROUNDING STRUCTURES. YOU GET A CHANCE TO
12 FEEL THE CONSISTENCY OF IT, LOOK AT THE COLOR OF IT, TO SEE
13 WHAT IT'S ATTACHED TO, TO HAVE A BETTER UNDERSTANDING OF
14 WHAT THOSE TUMORS LOOK LIKE.

15 Q. WITH YOUR OWN EYES, AS OPPOSED TO THE MICROSCOPE?

16 A. CORRECT. WITH YOUR HANDS AS WELL.

17 Q. AFTER YOU DID THE SPECIAL TRAINING IN PATHOLOGY,
18 WHAT DID YOU DO?

19 A. I WENT ON TO DO THREE YEARS OF TRAINING IN
20 CARDIAC, THORACIC AND VASCULAR SURGERY.

21 Q. AND THAT WAS IN CHICAGO?

22 A. THAT'S RIGHT.

23 Q. AND CAN YOU DESCRIBE FOR US THE PRIVATE PRACTICE
24 OF MEDICINE THAT YOU'VE BEEN INVOLVED IN.

25 A. IN 1985, I COMPLETED MY TRAINING AT RUSH
26 PRESBYTERIAN AND ST. LUKE'S MEDICAL CENTER, AND WAS ASKED TO
27 STAY ON STAFF AS A GENERAL THORACIC SURGEON SINCE THEN.

28 AND I'VE BEEN AT RUSH PRESBYTERIAN AND ST. LUKE'S
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1 SINCE 1985.

2 Q. DO YOU ALSO HAVE TEACHING DUTIES?

3 A. YES, I DO.

4 Q. WHAT IS IT THAT YOU TEACH AND WHERE DO YOU TEACH
5 IT?

6 A. WELL, I TEACH AT RUSH PRESBYTERIAN AND ST. LUKE'S
7 MEDICAL CENTER. APPROXIMATELY FIVE OR SIX YEARS AGO, RUSH
8 PRESBYTERIAN ACQUIRED COOK COUNTY HOSPITAL, WHICH HAD BEEN
9 PREVIOUSLY PART OF THE TRAINING PROGRAM OF THE UNIVERSITY OF
10 ILLINOIS.

11 SO I WAS TEACHING AT RUSH PRESBYTERIAN AND ST.
12 LUKE'S, AND I WAS ALSO TEACHING AT COOK COUNTY HOSPITAL.

13 NOW COOK COUNTY AND PRESBYTERIAN ARE FOLDED INTO
14 ONE PROGRAM, SO I HAVE TEACHING RESPONSIBILITIES IN BOTH
15 INSTITUTIONS.

16 Q. I'M GOING TO TELL YOU SOMETHING BEFORE THE COURT
17 REPORTER DOES IT. IF YOU COULD SLOW DOWN JUST A LITTLE, I
18 THINK IT WOULD BE EASIER FOR HER, BECAUSE I TEND TO TALK A
19 LITTLE FAST TOO. I THINK THAT BOTH OF US ARE GOING TO CAUSE
20 A PROBLEM.

21 A. I'M SORRY.

22 Q. THAT'S OKAY.

23 DO YOU BELONG TO ANY PROFESSIONAL SOCIETIES?

24 A. YES, I DO.

25 Q. TELL US, JUST GENERALLY, WHAT A PROFESSIONAL
26 SOCIETY IS AND WHY SOMEBODY IN YOUR POSITION IS INVOLVED IN
27 THOSE THINGS.

28 A. WELL, A PROFESSIONAL SOCIETY IS A SOCIETY OF, IN
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1 THIS CASE, SURGEONS, DOCTORS, THAT GET A CHANCE TO EXCHANGE
2 IDEAS, PRESENT IDEAS TO ONE ANOTHER. USUALLY ASSOCIATED
3 WITH THOSE SOCIETIES ARE JOURNALS AND PUBLICATIONS, WHICH
4 GIVES YOU AN OPPORTUNITY TO SHARE YOUR EXPERIENCE.

5 I'M SORRY. I'M GOING TOO FAST. AND IT GIVES YOU
6 AN OPPORTUNITY TO PARTICIPATE IN MANY ASPECTS OF MEDICINE
7 BEYOND SIMPLY THE PRACTICE OF MEDICINE.

8 Q. AND I TAKE IT, DOCTOR, THAT ON A DAY-TO-DAY

9 BASIS, IS THE MAJORITY OF YOUR TIME SPENT ACTUALLY DOING
10 SURGERY?
11 A. YES, IT IS.
12 Q. AND NOW, ON TOP OF THAT, YOU HAVE SOME TEACHING
13 DUTIES?
14 A. YES, I DO.
15 Q. ON TOP OF THAT, YOU FROM TIME TO TIME ARE
16 INVOLVED IN PUBLISHING IDEAS, I THINK YOU SAID?
17 A. YES.
18 Q. TELL US ABOUT THAT.
19 HOW DOES THAT WORK AND WHY IS IT DONE?
20 A. WELL, IT'S DONE BY WORKING UP AN IDEA OR A
21 PARTICULAR CASE OR SERIES OF CASES TO PRESENT SOMETHING NEW
22 AND TO PUT THAT TOGETHER IN WRITTEN FORM, TO SUBMIT IT TO
23 THE VARIOUS JOURNALS FOR THEM TO REVIEW BY YOUR PEERS, AND
24 TO DETERMINE WHETHER IT'S TRULY A GOOD IDEA, NEW IDEA,
25 SOMETHING THAT SHOULD BE DISTRIBUTED TO OTHER DOCTORS. AND
26 IF FOUND APPROPRIATE, IT IS PUBLISHED.
27 Q. AND WHERE ARE THOSE KINDS OF PAPERS PUBLISHED?
28 A. THERE ARE SEVERAL MAJOR JOURNALS. THE ANNALS OF
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1 THORACIC SURGERY, THE JOURNAL OF THORACIC AND CARDIOVASCULAR
2 SURGERY, CHEST, CANCER ARE FOUR LEADING JOURNALS.
3 Q. HAVE YOU DONE RESEARCH AND PUBLISHED THE RESULTS
4 OF THAT RESEARCH IN THOSE JOURNALS?
5 A. YES, I HAVE.
6 Q. WHAT OTHER JOURNALS HAVE YOU PUBLISHED THE
7 RESULTS OF YOUR RESEARCH IN?
8 A. VIRCHOV'S, V-I-R-C-H-O-V'S, ARCHIVES, THE
9 AMERICAN JOURNAL OF PATHOLOGY, PATHOLOGY RESEARCH AND
10 PRACTICE. THERE ARE MANY MORE. SHALL I GO ON?
11 Q. ARE THESE THE KINDS OF THINGS THAT OTHER DOCTORS
12 WHO HAVE INTEREST IN THE FIELD READ OR SUBSCRIBE TO?
13 A. ABSOLUTELY.
14 Q. HAVE YOU WRITTEN CHAPTERS OR PORTIONS OF MEDICAL
15 TEXTBOOKS?
16 A. YES, I HAVE.
17 Q. ON WHAT SUBJECTS?
18 A. VARIOUS ASPECTS OF THORACIC SURGERY, PATHOLOGY,
19 AND THE CLINICAL-PATHOLOGIC CORRELATION OF THOSE TWO FIELDS.
20 Q. LET ME ASK YOU TO EXPLAIN THAT, "THE
21 CLINICAL-PATHOLOGIC CORRELATION."
22 A. CORRECT.
23 Q. BETWEEN PATHOLOGY AND SURGERY?
24 A. CORRECT.
25 Q. WHAT DOES THAT MEAN?
26 A. WELL, IF ONE CONSIDERS PATHOLOGISTS DO PATHOLOGY
27 AND SURGEONS DO SURGERY AND NEVER GET A CHANCE TO SHARE
28 IDEAS, THEN THERE'S SOMETHING LOST.

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1 SO I READ THE PATHOLOGY LITERATURE, I APPLY IT TO
2 THE CLINICAL LITERATURE, I CORRELATE THE TWO, AND I TRY AND
3 WRITE PAPERS BRINGING THE PATHOLOGY -- OR WHATEVER INSIGHTS
4 THE PATHOLOGISTS CAN BRING INTO A SERIES OF CASES, AND TRY
5 AND DERIVE SOME INSIGHT.
6 Q. HAVE YOU DONE RESEARCH AND PUBLISHED THE RESULTS
7 OF THAT RESEARCH INVOLVING TUMORS THAT ARISE IN THE CHEST?
8 A. ABSOLUTELY.
9 Q. CAN YOU GIVE US SOME SENSE OF HOW EXTENSIVE OR
10 HOW BROAD YOUR EXPERIENCE IN THAT AREA IS IN TERMS OF
11 PUBLICATIONS?

12 A. I THINK THAT'S PROBABLY MY CHIEF FIELD OF
13 INTEREST. AND I HAVE PUBLISHED, I THINK, ALMOST 100 PAPERS.
14 NOW, THE MAJORITY OF THEM HAVE SOME INPUT FROM
15 PATHOLOGY. I WOULD SAY MORE THAN HALF OF THEM HAVE
16 CLINICAL-PATHOLOGIC IMPLICATIONS.

17 Q. HAVE YOU PUBLISHED PAPERS ON THE SUBJECT OF
18 EPITHELIAL TUMORS?

19 A. YES, I HAVE.

20 Q. WHAT ARE EPITHELIAL TUMORS?

21 A. TUMORS ARE NEOPLASMS, ARE GROWTHS. AND
22 "EPITHELIAL" MEANS THAT THEY'RE DERIVED FROM THE EPITHELIAL
23 LAYER.

24 MALIGNANT EPITHELIAL TUMORS ARE CANCERS.

25 Q. AND DOES YOUR RESEARCH IN THAT AREA INCLUDE
26 RESEARCH IN THE AREA OF SMALL CELL CARCINOMAS?

27 A. YES, IT DOES.

28 Q. IS A CARCINOMA A TYPE OF CANCER?

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1 A. YES, IT IS.

2 Q. AND A SMALL CELL IS A VARIATION OR A SUBTYPE OF
3 CARCINOMA?

4 A. IT'S A SPECIAL TYPE OF CARCINOMA.

5 Q. DOCTOR, CAN YOU DESCRIBE IN A LITTLE MORE DETAIL
6 FOR US, JUST GENERALLY, WHAT FUNCTIONS A THORACIC SURGEON
7 PERFORMS IN THE DIAGNOSIS OR TREATMENT OF A PATIENT.

8 A. WELL, MANY TIMES, HE IS THE ONE TO ESTABLISH THE
9 DIAGNOSIS. HE IS THE ONE TO HAVE SEEN THE PATIENT AFTER
10 SOMETHING HAS BEEN DISCOVERED, AND HIS CHARGE IS TO
11 ESTABLISH A DIAGNOSIS, TO FIND OUT WHAT THE PROBLEM IS, AND
12 IN THE CASE OF A TUMOR, TO STAGE IT SO YOU KNOW HOW FAR THAT
13 PROBLEM HAS GONE, AND TO FORMULATE A PLAN OF THERAPY WHICH
14 MAY OR MAY NOT INVOLVE OPERATING AND TAKING IT OUT.

15 Q. ARE THERE TOOLS OR PROCEDURES AVAILABLE TO YOU TO
16 HELP YOU MAKE THOSE DECISIONS?

17 A. OH, YES, THERE ARE.

18 Q. WHAT ARE THEY?

19 A. WELL, DEPENDING UPON WHERE THE TUMOR IS AND WHERE
20 IT'S LOCATED, AND WHAT YOUR SUSPICION OF WHAT THAT IS, WHAT
21 THAT TUMOR REPRESENTS, YOU COULD PUT A NEEDLE INTO IT AND
22 TAKE OUT SOME CELLS. YOU COULD PUT A NEEDLE INTO THE SIDE
23 AND TAKE OUT SOME FLUID.

24 YOU COULD PASS A SCOPE DOWN -- FOR INSTANCE, IN
25 THE CASE OF LUNG CANCER -- AND SCRAPE SOME CELLS FROM THE
26 SURFACE OF THE WINDPIPE, OR TAKE SOME MINUTE BIOPSIES.

27 THOSE THINGS CAN BE DONE QUITE EASILY, AND
28 USUALLY AS AN OUTPATIENT, WITH LOCAL ANESTHETIC, OR YOU

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1 COULD GO ON TO MORE INVASIVE PROCEDURES.

2 Q. IS THE PROCEDURE YOU JUST DESCRIBED SOMETHING
3 KNOWN AS A BRONCHOSCOPY?

4 A. THE SCOPE DOWN THE WINDPIPE AND OBTAINING SAMPLES
5 IS A BRONCHOSCOPY, YES.

6 Q. IN TERMS OF DIAGNOSING TUMORS THAT START IN THE
7 LUNG, HOW USEFUL IS BRONCHOSCOPY?

8 A. WELL, IT'S USUALLY THE FIRST TOOL THAT IS USED.
9 IT'S VERY USEFUL.

10 Q. IN PATIENTS WHO HAVE SMALL CELL CARCINOMA OF THE
11 LUNG, SMALL CELL CARCINOMA THAT STARTS IN THE LUNG, IN YOUR
12 EXPERIENCE, HOW OFTEN CAN YOU DEMONSTRATE THAT USING A
13 BRONCHOSCOPE?

14 A. IN THE VAST MAJORITY OF CASES, YOU CAN ESTABLISH

15 THE DIAGNOSIS OF SMALL CELL CARCINOMA BY PASSING THE
16 BRONCHOSCOPE AND OBTAINING SAMPLES THAT WAY.

17 Q. ARE THERE OTHER ABNORMALITIES THAT YOU CAN
18 OBSERVE USING A BRONCHOSCOPE THAT MIGHT HELP YOU FORM A
19 DIAGNOSIS ABOUT A PATIENT'S CANCER?

20 A. WELL, CERTAINLY, YOU CAN LOCATE WHERE THE
21 PATHOLOGY IS. SMALL CELL CARCINOMA OF THE LUNG IS A VERY
22 AGGRESSIVE TUMOR, AND SOMETIMES, EVEN THOUGH IT IS SEEN IN
23 THE LUNG -- AND SOMETIMES IT CAN BE QUITE LARGE AND OBVIOUS
24 ON A CHEST X-RAY -- IT CAN GROW UNDER THE LINING OF THE
25 LUNG, SO THAT SOMETIMES THE FINDINGS BY X-RAY AND THE GROSS
26 FINDINGS ARE QUITE OBVIOUS.

27 BUT SOMETIMES, THE DIAGNOSIS CAN'T BE ESTABLISHED
28 SIMPLY BY SCRAPING THE SURFACE OF THE WINDPIPE BECAUSE THE
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0012 1 TUMOR GOES ALL AROUND THE WINDPIPE AND UNDER, AROUND THE
2 LINING OF THE LUNG.

3 Q. IN THOSE SITUATIONS, ARE THERE OTHER
4 ABNORMALITIES THAT CAN BE OBSERVED OR CORRELATED WITH THE
5 PATHOLOGY, AS IT WERE?

6 A. THE AIRWAY CAN BE NARROWED. THE AIRWAY CAN BE
7 COLLAPSED. THE AIRWAY CAN BE COMPROMISED AND SECRETIONS CAN
8 BUILD UP BEHIND IT.

9 SO YOU HAVE A PNEUMONIA COMPLICATING THE PRESENCE
10 OF THAT CANCER.

11 Q. IS AN AIRWAY --I WANT TO KEEP OUR TERMS
12 STRAIGHT -- IS "AIRWAY" A MORE GENERAL OR LAYMAN'S TERM FOR
13 BRONCHUS OR BRONCHI?

14 A. WELL, THE AIRWAY CONSISTS OF THE TRACHEA, RUNNING
15 FROM THE VOICE BOX DOWN TO THE CENTER OF THE CHEST. FROM
16 THAT POINT, IT BREAKS INTO BRONCHI, ONE MAIN STEM BRONCHUS
17 TO EACH SIDE, AND THERE, JUST LIKE THE BRANCHES OF A TREE,
18 WITH A SPECIFIC BRANCHING SYSTEM, IT FEEDS OFF INTO ALL THE
19 PARTS OF THE LUNG. THAT'S ALL PART OF THE AIRWAY.

20 Q. WHAT USE DOES A SURGEON MAKE OF X-RAYS OR CT
21 SCANS IN TRYING TO DIAGNOSE DISEASE OR TO DETERMINE WHERE IN
22 THE BODY IT EXISTS?

23 A. OH, IT'S PIVOTAL.

24 Q. TELL US HOW YOU USE THEM.

25 LET ME BACK UP FOR A MINUTE.

26 THERE ARE DOCTORS, I TAKE IT, WHO SPECIALIZE IN
27 INTERPRETING OR DESCRIBING THINGS THAT ARE SEEN ON X-RAYS OR
28 CT SCANS?

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0013 1 A. YES, THERE ARE.

2 Q. AND THEY KNOWN AS RADIOLOGISTS?

3 A. THAT'S RIGHT.

4 Q. BUT AS A SURGEON, ARE YOU ALSO REQUIRED, ON A
5 DAY-TO-DAY BASIS, TO READ AND INTERPRET X-RAYS AND CT SCANS?

6 A. YES, ABSOLUTELY.

7 Q. IN WHAT INSTANCES AND HOW DO YOU USE THEM?

8 A. WELL, MANY TIMES, WE LOOK AT X-RAYS EVEN WITHOUT
9 THE X-RAY REPORT. I LOOK EVERY DAY AT X-RAYS THAT HAVE NOT
10 YET BEEN READ BY THE RADIOLOGIST.

11 WHEN A PATIENT IS IN THE HOSPITAL AND THEY'VE HAD
12 AN OPERATION, THEY GET A CHEST X-RAY. NINE TIMES OUT OF 10,
13 I SEE THAT X-RAY BEFORE A RADIOLOGIST HAS SEEN IT.

14 IN THE CASE OF A PATIENT WHO COMES INTO THE
15 OFFICE WITH A CHEST X-RAY OR A CAT SCAN, I OFTEN -- AS A
16 MATTER OF FACT, I TRY TO LOOK AT THAT X-RAY WITHOUT THE
17 OFFICIAL INTERPRETATION. I DO THAT SO THAT I'M NOT BIASED

18 BY THE READING OF THE RADIOLOGIST.

19 BUT I THINK IT'S ALSO TRUE THAT I HAVE SPECIAL
20 INSIGHT IN THAT I HAVE OPENED THE CHEST AND I HAVE SEEN WHAT
21 IS IN THE CHEST. I CAN MAKE COMMENTS OR NOTES TO MYSELF ON
22 THE LOCATION OF THIS TUMOR AND WHAT PROBLEMS IT MIGHT POSE
23 AT THE TIME OF SURGERY THAT A RADIOLOGIST WOULDN'T EVEN
24 CONSIDER.

25 SO IT'S OF PIVOTAL IMPORTANCE THAT I SEE THE
26 X-RAY AND NOT JUST SOMEBODY'S INTERPRETATION OF THAT X-RAY.

27 Q. DO YOU USUALLY USE X-RAYS OR CT SCANS IN THE
28 OPERATING ROOM WHILE YOU ARE PERFORMING SURGERY?

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1 A. IN EVERY CASE -- EVERY CASE, I HAVE AN X-RAY,
2 USUALLY A CAT SCAN, MOUNTED IN THE OPERATING ROOM WHILE I'M
3 PERFORMING THE SURGERY.

4 Q. AND HOW DO YOU USE IT, OR WHAT USE DO YOU MAKE OF
5 IT?

6 A. SOMETIMES IT HELPS YOU TO FIND A TUMOR THAT COULD
7 BE EXTREMELY SMALL AND IN THE CENTER OF THE LUNG.

8 OTHER TIMES -- I'M GOING TOO FAST. I'M SORRY.

9 OTHER TIMES, IT SIMPLY CAN BE USED TO CORRELATE WITH
10 UNEXPECTED FINDINGS AT THE TIME OF SURGERY. YOU CAN LOOK
11 BACK AT THE X-RAY AND SHARPEN YOUR SKILLS ON READING THE
12 X-RAY BY VIRTUE OF FINDING SOMETHING THAT WAS MISSED BEFORE.

13 Q. HOW MANY -- I DON'T KNOW THE RIGHT WORDS, WHETHER
14 IT'S SURGERIES OR SURGICAL PROCEDURES -- HOW MANY SURGERIES,
15 CHEST SURGERIES DO YOU PERFORM EACH YEAR?

16 A. PROBABLY ON THE ORDER OF 200 TO 250.

17 Q. AND DO YOU SEE OR DIAGNOSE A FAIR AMOUNT OF LUNG
18 CANCER EACH YEAR?

19 A. OH, YES.

20 Q. HOW MANY CASES EVERY YEAR OF CANCER THAT ACTUALLY
21 STARTS GROWING IN THE LUNG DO YOU DIAGNOSE?

22 A. PROBABLY BETWEEN 50 AND 80 CASES A YEAR.

23 Q. AND WHEN YOU HAVE CASES LIKE THAT, HOW DO YOU
24 TYPICALLY DIAGNOSE THEM?

25 A. SOMETIMES THEY ARRIVE WITH A DIAGNOSIS ALREADY
26 PROVIDED FROM THE REFERRING DOCTOR. SOMETIMES THEY HAVE
27 ALREADY ESTABLISHED A DIAGNOSIS AND THEY ARE SENT TO ME FOR
28 OTHER REASONS.

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1 BUT IF I HAVE TO ESTABLISH THE DIAGNOSIS, I WOULD
2 PERFORM THE APPROPRIATE PROCEDURE, WHICH OFTEN IS THE
3 BRONCHOSCOPY.

4 Q. WHAT IS THE MOST COMMON TYPE OF -- ARE THERE
5 DIFFERENT TYPES OF CANCER THAT START IN THE LUNG?

6 A. YES, THERE ARE.

7 Q. WHAT IS THE MOST COMMON TYPE?

8 A. ADENOCARCINOMA.

9 Q. IS THAT A TYPE OF CANCER THAT CAN START IN OTHER
10 PARTS OF THE BODY ALSO?

11 A. YES, IT CAN. THERE ARE SPECIAL FEATURES THAT
12 SOMETIMES DIRECT YOU AS TO WHERE A CANCER STARTED.

13 Q. AND IS ANOTHER TYPE OF CANCER WE HAVE TALKED
14 ABOUT KNOWN AS SMALL CELL CARCINOMA?

15 A. THAT'S RIGHT.

16 Q. THAT IS A DIFFERENT TYPE OF CANCER THAN
17 ADENOCARCINOMA?

18 A. THAT'S RIGHT.

19 Q. DO YOU SEE PEOPLE WITH SMALL CELL CARCINOMA?
20 A. OH, YES.

21 Q. AND DO YOU SEE PEOPLE WITH SMALL CELL CARCINOMA
22 THAT ACTUALLY STARTS IN THE LUNG?

23 A. OH, YES.

24 Q. HOW DO YOU DETERMINE IN ONE OF YOUR PATIENTS
25 WHETHER THEY HAVE A CANCER THAT STARTED IN THE LUNG AS
26 OPPOSED TO IT STARTED SOMEWHERE ELSE AND PERHAPS SPREAD TO
27 THE LUNG?

28 LET ME BACK UP.

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0016 1 A. SURELY.

2 Q. ARE THERE TUMORS, DOCTOR, THAT YOU CAN FIND IN
3 THE LUNG THAT START SOMEWHERE ELSE IN THE BODY AND SPREAD TO
4 THE LUNG?

5 A. YES.

6 Q. HOW OFTEN, IN YOUR EXPERIENCE, DOES THAT OCCUR?

7 A. QUITE COMMONLY.

8 Q. AND IS THERE AN ANATOMICAL OR A PATHOLOGICAL
9 EXPLANATION FOR THAT?

10 A. WELL, IT'S THE NATURE OF CANCER THAT CANCER CELLS
11 ARE SHED FROM ITS PRIMARY SITE AND SPREAD THROUGH THE BLOOD
12 SYSTEM, THE CIRCULATION, AND ESTABLISHES, IF YOU WISH,
13 PERIPHERAL COLONIES THROUGHOUT THE BODY.

14 THE LUNG IS THE FAVORITE SITE.

15 Q. FOR A CANCER THAT STARTED SOMEWHERE ELSE TO
16 ESTABLISH ITSELF?

17 A. THAT'S CORRECT.

18 Q. IS THAT A SECONDARY OR --

19 A. OR A METASTASIS IN THE LUNG.

20 Q. NOW, IN YOUR PRACTICE, HOW DO YOU DETERMINE
21 WHETHER A CANCER STARTED IN THE LUNG OR STARTED SOMEWHERE
22 ELSE AND SPREAD TO THE LUNG, IF YOU FIND THE TUMOR IN THE
23 LUNG?

24 A. WELL, USUALLY, THERE IS A HISTORY OF A PATIENT
25 WHO HAS ALREADY HAD A DIAGNOSIS OF CANCER ELSEWHERE
26 ESTABLISHED. SAY, FOR INSTANCE, A PATIENT WHO HAD A BOWEL
27 CANCER RESECTED THREE YEARS AGO, AND THEY END UP WITH A
28 NODULE, OFTEN MORE THAN ONE, IN THE LUNG THAT APPEAR.

JUDITH ANN OSSA, CSR NO. 2310

0017 1 Q. CAN I INTERRUPT.

2 WHAT DO YOU MEAN BY "RESECTED"?

3 A. TAKEN OUT, OPERATED UPON, AND COMPLETELY REMOVED
4 FROM THE ORIGINAL SITE.

5 Q. I'M SORRY I INTERRUPTED YOU.

6 A. SOMETIMES THERE IS NO HISTORY OF A CANCER
7 ELSEWHERE, AND IT CAN BE SOMEWHAT OF A SURPRISE THAT IT'S A
8 SOLITARY LESION. YOU CAN THINK THAT IT PROBABLY WAS ARISING
9 IN THE LUNG, BUT WHEN YOU SEND IT DOWN TO THE PATHOLOGIST,
10 HE SAYS, BASED ON WHAT HE SEES UNDER THE MICROSCOPE, THAT
11 "THIS LOOKS LIKE KIDNEY CANCER," FOR INSTANCE.

12 Q. CANCERS LOOK DIFFERENTLY UNDER THE MICROSCOPE,
13 DEPENDING ON WHERE IN THE BODY THEY START?

14 A. YES AND NO. SOME OF THEM HAVE A VERY
15 CHARACTERISTIC PATTERN, AND OTHERS, IT IS LESS HELPFUL.

16 Q. WITH RESPECT TO SMALL CELL CARCINOMA, IS THAT A
17 TYPE OF CANCER THAT CAN START IN A VARIETY OF LOCATIONS
18 WITHIN THE BODY?

19 A. YES, IT CAN.

20 Q. WHERE GENERALLY IN THE BODY CAN A SMALL CELL
21 CANCER START?

22 A. THE MOST LIKELY SITE, THE MOST COMMON SITE FOR
23 SMALL CELL CARCINOMA TO ARISE IS THE LUNG, BUT IT HAS BEEN

24 FOUND THROUGHOUT THE BODY. IT HAS BEEN FOUND TO ARISE IN
25 THE SKIN. IT'S BEEN FOUND TO ARISE IN THE VOICE BOX. IT'S
26 BEEN FOUND TO ARISE IN THE THYMUS. IT'S BEEN FOUND TO ARISE
27 IN THE STOMACH AND THE LARGE BOWEL. IT'S BEEN FOUND TO
28 ARISE IN THE OVARY AND IN THE GENITOURINARY TRACT.

JUDITH ANN OSSA, CSR NO. 2310

0018

1 Q. IS THERE ANY WAY TO DETERMINE, BY LOOKING AT A
2 SMALL CELL CARCINOMA UNDER THE MICROSCOPE, WHETHER OR IF IT
3 STARTED IN ANY PARTICULAR PART OF THE BODY?

4 A. NO.

5 Q. HOW IS IT THEN THAT WHAT -- STRIKE THAT.

6 WHAT ARE THE THINGS THAT YOU FIND IN A PATIENT
7 WHO HAS A SMALL CELL CARCINOMA THAT ACTUALLY STARTED IN THE
8 LUNG?

9 A. ARE YOU ASKING FOR A CLINICAL PICTURE HERE?

10 Q. CORRECT. TELL US WHAT YOU MEAN BY "CLINICAL
11 PICTURE."

12 A. WELL, THE CLINICAL PICTURE IS THE WAY THAT THE
13 PATIENT PRESENTS THEIR STORY AND WHAT YOU FIND ON EXAMINING
14 THE PATIENT.

15 THE STORY OFTEN, UNFORTUNATELY, IS THAT THE
16 CANCER HAS ALREADY SPREAD OUTSIDE THE CHEST BY THE TIME YOU
17 DISCOVER IT. THREE-QUARTERS OF THE TIME, A SMALL CELL
18 CARCINOMA WHICH AROSE IN THE LUNG HAS ALREADY SPREAD OUTSIDE
19 THE CHEST.

20 Q. TO WHERE?

21 A. OFTEN, IT'S TO SITES LIKE THE BRAIN, AND THE
22 PATIENT MAY PRESENT WITH BLURRED VISION OR UNSTEADINESS.
23 THEY CAN PRESENT WITH THE TUMOR ALREADY SPREAD TO THE LIVER
24 AND HAVE ASSOCIATED NAUSEA, FEELING SICK, LOSING WEIGHT.

25 THEY CAN HAVE THE TUMOR STILL CONFINED TO THE
26 CHEST, BUT CAUSING COMPRESSION OF BLOOD VESSELS IN THE CHEST
27 OR INVADING NERVES IN THE CHEST. ONE FAVORITE FOR IT TO
28 PRESENT IS WITH SOME UNEXPLAINED HOARSENESS.

JUDITH ANN OSSA, CSR NO. 2310

0019

1 Q. AND WHAT DO YOU MEAN BY "HOARSENESS"?

2 A. WELL, THE VOICE IS WEAK, AND IN FACT, THE VOICE
3 SOMETIMES CRACKS.

4 IN THIS PARTICULAR SCENARIO THAT I'M PRESENTING,
5 ONE OF THE NERVES TO THE VOICE BOX IS PARALYZED, MEANING
6 THAT ONE OF THE VOCAL CORDS IS PARALYZED, SO ONLY ONE VOCAL
7 CORD WORKS, AND THAT GIVES A PATIENT A CHARACTERISTIC TYPE
8 OF HOARSENESS.

9 Q. IS THAT SOMETHING THAT RESULTS FROM SOME KIND OF
10 PATHOLOGICAL OCCURRENCE WITHIN THE CHEST?

11 A. I WAS DESCRIBING THAT IN THE SETTING OF A SMALL
12 CELL CARCINOMA OF THE LUNG THAT HAS ADVANCED IN THE CHEST.

13 Q. WHAT OTHER -- WHAT OTHER FINDINGS DO YOU
14 TYPICALLY SEE IN A PATIENT WHO HAS SMALL CELL CARCINOMA THAT
15 ACTUALLY BEGINS OR BEGAN IN THE LUNG?

16 A. ARE YOU ASKING FOR OTHER SITES OF SPREAD OF THE
17 SMALL CELL CARCINOMA?

18 Q. WELL, LET ME ASK YOU THAT.

19 HOW DO YOU DEMONSTRATE THAT IT'S SPREAD TO OTHER
20 PARTS OF THE BODY, OR HOW DO YOU KNOW IT HAS SPREAD?

21 A. WELL, THE FIRST THING YOU DO IS TAKE A HISTORY
22 FROM THE PATIENT. YOU ASK THEM HOW THEY'RE FEELING. AND IF
23 THEY SAY THEY'RE HAVING BLURRED VISION, THEN, OBVIOUSLY,
24 YOUR EXAMINATION WOULD BE DIRECTED TOWARDS SOMETHING GOING
25 ON WITH THE BRAIN OR THE EYES.

26 IF THEY'RE EXPLAINING THAT THEIR VOICE IS HOARSE,

27 THEN YOUR EXAMINATION WOULD BE DIRECTED TOWARD WHAT COULD BE
28 CAUSING A HOARSE VOICE.

JUDITH ANN OSSA, CSR NO. 2310

0020

1 BUT IF YOUR SUSPICION SOMEWHERE ALONG THE LINE IS
2 THAT THERE'S SOMETHING GOING ON IN THE CHEST, SOONER OR
3 LATER YOU ARE GOING TO GET A CHEST X-RAY, EITHER BASED ON
4 THE CLINICAL FINDINGS, OR EVEN IN THE ABSENCE OF CLINICAL
5 FINDINGS.

6 Q. AND WHAT WOULD YOU TYPICALLY FIND ON A CHEST
7 X-RAY IN A PATIENT WHO HAS A SMALL CELL CANCER THAT HAS
8 STARTED IN THE LUNG?

9 A. WELL, TYPICALLY, YOU'LL FIND A CENTRAL MASS IN
10 THE LUNG.

11 Q. WHEN YOU SAY YOU FIND IT, YOU MEAN YOU SEE IT ON
12 THE X-RAY?

13 A. YOU SEE IT ON THE X-RAY.

14 Q. WHAT ABOUT THE CT SCAN; WHAT DO YOU TYPICALLY
15 FIND ON A CT SCAN?

16 A. WELL, IF YOU SUSPECT SOMETHING IS GOING ON BY THE
17 CHEST X-RAY, OR EVEN FROM THE CLINICAL STORY, YOU'LL PROCEED
18 TO GET A CAT SCAN OR A CT SCAN.

19 "CT" STANDS FOR COMPUTERIZED TOMOGRAPHY, WHERE
20 YOU CAN SEE IN GREAT DETAIL THE RELATIONSHIP IN THE VARIOUS
21 STRUCTURES OF THE CHEST. AND A CAT SCAN WOULD HELP TO
22 PINPOINT WHERE THE MASS IS, WHAT IT'S ADJACENT TO, WHAT
23 OTHER PROBLEMS ARE ASSOCIATED WITH THIS MASS, AND IT WILL
24 HELP TO DETERMINE SUCH THINGS AS, CAN YOU GET IT OUT.

25 Q. IN YOUR EXPERIENCE IN PATIENTS WHO HAVE A SMALL
26 CELL CANCER THAT STARTS IN THE LUNG, ARE THERE ABNORMALITIES
27 IN THE LUNG FIELDS ON THE CT SCAN?

28 A. OH, YES. ABSOLUTELY.

JUDITH ANN OSSA, CSR NO. 2310

0021

1 Q. AND THEN, WHAT ELSE DO YOU FIND TYPICALLY BEYOND
2 THE X-RAYS, THE CT SCANS AND THE HISTORY?

3 A. WELL, IF YOU SUSPECT THAT THERE IS A LUNG
4 PROBLEM, THEN YOU HAVE TO GO AHEAD AND ESTABLISH A DIAGNOSIS
5 OF THAT.

6 USUALLY, WHEN THE CAT SCAN IS PERFORMED, IT WILL
7 HELP TO A POINT WHERE IN THE LUNG THAT IS, AND YOU WOULD
8 OFTEN PROCEED WITH A BRONCHOSCOPY.

9 Q. AND THAT'S THE PROCEDURE WE TALKED ABOUT EARLIER?

10 A. THAT IS THE PROCEDURE WE TALKED ABOUT EARLIER,
11 WHEREUPON A SMALL FLEXIBLE SCOPE IS PASSED DOWN THE WINDPIPE
12 INTO THE AREA OF CONCERN.

13 Q. AND WHAT HAPPENS THEN? WHAT USE DO YOU MAKE OF
14 THAT TOOL IN ORDER TO CREATE OR ARRIVE AT A DIAGNOSIS OF A
15 CANCER THAT ACTUALLY STARTED IN THE LUNG?

16 A. WELL, USUALLY, AT THAT TIME, YOU TAKE SAMPLES OF
17 THE LINING OF THE WINDPIPE, WHICH CAN BE DONE EITHER BY
18 PASSING A LITTLE BRUSH DOWN THROUGH THE SCOPE, WHICH IS
19 ABOUT THE SIZE OF THE DIAMETER OF A PEN OR A PENCIL, AND YOU
20 TAKE A BRUSHING. YOU SCRAPE SOME CELLS FROM THE SURFACE OF
21 THE LINING OF THE WINDPIPE.

22 YOU CAN ALSO OBTAIN BIOPSIES, WHICH ARE LITTLE
23 TINY MILLIMETER PIECES OF TISSUE, AND YOU CAN SEND THOSE TO
24 PATHOLOGY AS WELL.

25 YOU CAN ALSO IRRIGATE, THAT IS, WASH WITH SALINE,
26 SALT AND WATER, THE LINING OF THE WINDPIPE, AND OBTAIN
27 FURTHER SAMPLES THERE FROM CELLS THAT ARE BEING SHED FROM
28 THE SURFACE OF THE WINDPIPE IN ORDER TO ESTABLISH A

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0022

1 DIAGNOSIS.

2 Q. DOCTOR, HOW USUAL OR HOW TYPICAL -- STRIKE THAT.
3 HOW UNUSUAL WOULD IT BE TO CONCLUDE -- STRIKE
4 THAT.

5 IN YOUR EXPERIENCE, HOW OFTEN DO YOU CONCLUDE OR
6 DETERMINE THAT A PATIENT HAS A CANCER THAT STARTED IN HIS OR
7 HER LUNG WHEN THERE'S NO EVIDENCE OF AN ABNORMALITY ON THE
8 LUNG FIELDS IN THE CAT SCAN AND THERE'S NO BIOPSY OBTAINED
9 FROM A BRONCHOSCOPY THAT IS POSITIVE FOR CANCER CELLS?

10 A. WELL, IT CAN HAPPEN. BUT USUALLY, LUNG CANCER,
11 YOU CAN FIND SOMETHING IN THE LUNG. IF YOU DON'T SEE IT ON
12 A PLAIN X-RAY, YOU MAY FIND SOMETHING SMALLER, SAY, THE SIZE
13 OF A PEA BY CAT SCAN. IF THERE'S NOTHING ON CHEST X-RAY OR
14 CAT SCAN, I THINK IT'S LESS LIKELY, EVEN MORE LESS LIKELY.
15 IN FACT, IT WOULD BE VERY UNCOMMON. NOT UNHEARD OF, BUT
16 VERY UNCOMMON.

17 IF YOU ADD TO THAT BRONCHOSCOPY OR SPUTUM
18 CYTOLOGY, YOU KEEP GOING DOWN THE LIST TO LOOK HARDER AND
19 HARDER FOR THINGS IN THE LUNG, AND THEY'RE ALL COMING UP
20 NEGATIVE, I THINK THAT SOONER OR LATER, YOU HAVE TO ASK
21 YOURSELF WHETHER THERE WAS ANYTHING GOING ON IN THE LUNG IN
22 THE FIRST PLACE.

23 Q. NOW, DOCTOR, HAVE YOU LOOKED AT MEDICAL RECORDS
24 AND X-RAYS AND CT SCANS RELATING TO MS. HENLEY, PATRICIA
25 HENLEY?

26 A. YES, I HAVE.

27 Q. AND YOU'VE DONE THAT IN ORDER TO FORM AN OPINION,
28 IF YOU CAN, ABOUT WHERE HER CANCER MIGHT HAVE STARTED?

 JUDITH ANN OSSA, CSR NO. 2310

0023

1 A. YES, I HAVE.

2 Q. WITH SPECIFIC REFERENCE TO THE LIKELIHOOD THAT IT
3 DID OR DID NOT START IN THE LUNG?

4 A. YES.

5 Q. CAN YOU DESCRIBE FOR ME WHAT IT WAS YOU HAVE
6 REVIEWED.

7 A. WELL, I REVIEWED A SERIES OF CHEST X-RAYS, WHICH
8 INCLUDED A CHEST X-RAY FROM THE FRONT AND SIDE THAT WAS
9 PERFORMED BEFORE HER SURGERY IN JANUARY 1998. AND I BELIEVE
10 IT WAS JANUARY THE 3RD.

11 I ALSO REVIEWED A CAT SCAN THAT WAS DONE ON OR
12 ABOUT THAT SAME TIME, BEFORE HER OPERATION.

13 Q. AND I HAVE THOSE.

14 IF WE PUT THOSE ON THE BOX, WOULD YOU BE ABLE TO
15 DESCRIBE FOR US YOUR IMPRESSIONS OF THOSE FILMS, AND COMPARE
16 AND CONTRAST THEM TO WHAT YOU TYPICALLY FIND IN PATIENTS WHO
17 HAVE A CANCER THAT STARTS IN THEIR LUNG?

18 A. SURELY.

19 MR. OHLEMAYER: MAY I, YOUR HONOR?

20 THE COURT: SURE.

21 MR. OHLEMAYER: Q. ACTUALLY, DOCTOR, WHY DON'T
22 YOU STEP DOWN AND TAKE A LOOK AT THAT, AND I'LL SET THIS UP.

23 MS. CHABER: WE'LL SEE IF HE DOES BETTER AT
24 MOVING THAT THAN I DO (REFERRING TO VIEW BOX).

25 THE COURT: HE'S NOT OFF TO A GOOD START.

26 MR. OHLEMAYER: NOT BAD.

27 THE WITNESS: ARE THE FILMS IN HERE?

28 MR. OHLEMAYER: YES.

 JUDITH ANN OSSA, CSR NO. 2310

0024

1 Q. AND WHAT YOU HAVE TO DO FOR US, DOCTOR, IS
2 IDENTIFY WHAT IT IS YOU'RE PUTTING ON THE BOX FOR US.

3 A. ALL RIGHT.

4 Q. WHY DON'T YOU GO AHEAD, DOCTOR, AND DESCRIBE FOR
5 US WHAT YOU PUT ON THE LIGHT BOX.

6 A. WHAT I PUT UP HERE IS A CHEST X-RAY TAKEN FROM
7 THE FRONT AND FROM THE SIDE OF MS. PATRICIA HENLEY, DONE ON
8 JANUARY THE 3RD, 1998. THIS WAS DONE LOOKING LIKE THIS
9 (INDICATING).

10 AND THIS WAS DONE AS A SIDE VIEW. REMEMBER, THE
11 HANDS ARE UP OVER THE HEAD, SO YOU DON'T SEE THE ARMS. THEY
12 ARE UP HERE (DEMONSTRATING).

13 THIS IS THE CHEST, THIS IS THE FRONT, THIS IS THE
14 BACK, THIS IS THE TOP, THIS IS THE BOTTOM (DEMONSTRATING).

15 AND ON THESE FILMS, YOU CAN SEE THAT THERE IS AN
16 ABNORMALITY RIGHT HERE (INDICATING).

17 (HANDS RAISED)

18 MR. OHLEMAYER: EXCUSE ME, DOCTOR. YOU ARE
19 GOING TO HAVE TO STAND A LITTLE TO THE SIDE SO THAT PEOPLE
20 CAN SEE.

21 THE COURT: JUST SO YOU KNOW, A COUPLE OF OUR
22 JURORS ARE SITTING IN THE FRONT ROW.

23 THE WITNESS: OH, FINE.

24 THE COURT: AND THEY HAVE BEEN TOLD TO RAISE
25 THEIR HANDS IF THEY CAN'T SEE, AND THEY WERE RAISING THEIR
26 HANDS.

27 THE WITNESS: THANK YOU.

28 I'M STARTING WITH THESE TWO X-RAYS HERE. THIS IS
JUDITH ANN OSSA, CSR NO. 2310

0025 1 A FRONT VIEW AND THIS IS A SIDE VIEW, ON JANUARY THE 3RD.

2 AND THE ABNORMALITY IS SEEN IN SILHOUETTE RIGHT
3 HERE (INDICATING). PRESUMABLY, IT GOES IN HERE, AND IT'S
4 NOT LIMITED TO THAT LINE, BUT THAT LINE IS ABNORMAL.

5 EVERYTHING ELSE ON THAT CHEST X-RAY LOOKS
6 NORMAL. THIS IS THE RIGHT LUNG, THIS IS THE LEFT LUNG, THIS
7 IS THE HEART, THE LEFT HEMIDIAPHRAGM, THE RIGHT
8 HEMIDIAPHRAGM (INDICATING).

9 THERE IS NO FLUID. THERE'S NO MASS. THERE IS NO
10 INFILTRATE.

11 AND THIS IS VIRTUALLY THE ONLY ABNORMALITY THAT I
12 CAN SEE ON THAT FILM.

13 MR. OHLEMAYER: Q. LET ME ASK YOU THIS,
14 DOCTOR: IS THAT ABNORMAL, INSIDE THE LUNG?

15 A. I CAN'T TELL, BASED ON THIS ONE VIEW OF THIS ONE
16 X-RAY. IT COULD BE, BASED ON THIS X-RAY.

17 THIS IS THE SIDE VIEW, THIS IS THE FRONT, AND
18 THIS IS THE BACK.

19 Q. YOU ARE REFERRING TO THE SECOND FILM?

20 A. CORRECT. THIS IS THE BACKBONE IN BACK. THIS IS
21 THE HEART IN FRONT (INDICATING).

22 AND YOU CAN SEE THE WINDPIPE COMING RIGHT DOWN
23 HERE (INDICATING). AND THIS IS THE MASS IN THIS REGION, ON
24 TOP OF THE HEART, IF YOU WISH.

25 BUT THAT MASS, YOU CAN SEE THAT THERE IS A
26 WHITENESS TO THIS IN FRONT OF THE WINDPIPE AS WELL.

27 Q. WHAT DOES THAT TELL YOU WITH RESPECT TO WHERE IT
28 MIGHT BE LOCATED?

JUDITH ANN OSSA, CSR NO. 2310

0026 1 A. IT IS IN THE HILUM OF THE LUNG. IT IS IN THE
2 ROOT OF THE LUNG.

3 THERE ARE A LOT OF THINGS THAT GO ON THERE. IT
4 IS POSSIBLE THAT THIS IS A LUNG MASS, BUT IT WOULD BE
5 UNUSUAL FOR A LUNG MASS TO INVOLVE THIS REGION HERE

6 (INDICATING).

7 Q. LET ME STOP YOU THERE.

8 AT THIS POINT IN TIME, ARE YOU FAMILIAR WITH WHAT
9 MS. HENLEY'S SYMPTOMS WERE AT THE TIME SHE GOT THE X-RAY?

10 A. I BELIEVE SHE WAS FEELING UNWELL. SHE HAD A
11 COUGH. SHE, IN FACT, I THINK COUGHED UP BLOOD ON OCCASION.

12 Q. IS THERE ANYTHING ABOUT THOSE SYMPTOMS, BASED ON
13 THAT X-RAY, THAT WOULD LEAD YOU TO BELIEVE THAT THAT WAS A
14 TUMOR THAT WAS ACTUALLY INSIDE THE LUNG, JUST BASED ON WHAT
15 YOU KNEW AT THAT POINT IN TIME?

16 A. IT CAN'T BE RULED OUT, BASED ON THESE X-RAYS.

17 HOWEVER, WHEN SOMEONE IS COUGHING UP BLOOD, I
18 THINK YOU HAVE TO THINK IN TERMS OF SOMEONE HAVING A PROBLEM
19 WITH THE WINDPIPE, AND CANCER IS COMMON.

20 I DON'T THINK IT'S UNREASONABLE AT THIS TIME TO
21 THINK THAT CANCER OF THE LUNG HAS TO BE, SHALL WE SAY, IN
22 THE DIFFERENTIAL DIAGNOSIS OF A PATIENT OF THINGS THAT COULD
23 BE.

24 Q. IT CERTAINLY WOULD BE SOMETHING THAT A DOCTOR, IF
25 HE HAD A PATIENT WITH THOSE SYMPTOMS IN THAT CHEST X-RAY,
26 WOULD BE SUSPICIOUS OF?

27 A. ABSOLUTELY.

28 Q. WOULD IT BE ENOUGH FOR YOU TO DIAGNOSE LUNG
JUDITH ANN OSSA, CSR NO. 2310

0027

1 CANCER AT THAT POINT?

2 A. WELL, THERE IS DIAGNOSIS AND DIAGNOSIS. IT'S
3 ENOUGH FOR ME TO SAY IT'S HIGH ON THE LIST OF THINGS THAT
4 SHE HAS. BUT OBVIOUSLY, YOU DON'T WANT TO PROCEED WITH ANY
5 THERAPY BASED ONLY ON THAT HUNCH AT THIS TIME.

6 Q. SO WHAT WOULD -- WAS THERE SOMETHING ELSE THAT
7 WAS THEN DONE AT OR ABOUT THAT TIME?

8 A. I BELIEVE A CAT SCAN WAS DONE ABOUT THE SAME
9 TIME. A CAT SCAN IS DONE WITH A PATIENT LYING ON A TABLE
10 AND BEING FED THROUGH A MACHINE THAT HAS A RING IN IT. AND
11 AS THAT RING -- AS THE PATIENT IS BEING FED THROUGH THE RING
12 ELECTRONICALLY, THE BODY IS BEING SLICED THIS WAY
13 (INDICATING).

14 SO YOU ARE SEEING SLICES OF THE BODY, AND EACH
15 SLICE IS ABOUT THE THICKNESS OF A SLICE OF BREAD, 10
16 METERS. AND THEN IT'S MOUNTED -- THAT IMAGE, THAT
17 INFORMATION ELECTRONICALLY IS SENT THROUGH A COMPUTER AND
18 SCRAMBLED AND PUT BACK INTO AN ORDINARY X-RAY FILM, AS IF WE
19 HAD SECTIONED THE BODY AND LOOKED UP FROM BELOW WITH THE
20 EYES OF AN X-RAY MACHINE.

21 SO WHEN THAT HAPPENS, THIS IS THE IMAGE THAT YOU
22 GET THROUGH THE NECK (INDICATING). THIS IS THE BACK, THIS
23 IS THE FRONT, THIS IS THE RIGHT SIDE, THIS IS THE LEFT
24 SIDE.

25 AND JUST AS ON THE PLAIN X-RAY, AIR IS BLACK AND
26 BONES ARE WHITE. THIS IS BACKBONE, THIS IS THE SHOULDER
27 SOCKET ON THE RIGHT SIDE, THIS IS THE SHOULDER SOCKET ON THE
28 LEFT SIDE, THE COLLARBONE ON THE RIGHT SIDE, THE COLLARBONE
JUDITH ANN OSSA, CSR NO. 2310

0028

1 ON THE LEFT SIDE, AND THIS IS THE WINDPIPE. THIS IS STILL
2 UP IN THE NECK, ABOVE THE BREASTBONE AT THIS POINT.

3 EACH SECTION GOING DOWN HERE IS ANOTHER SLICE
4 LOWER. AT THIS LEVEL HERE, FOR INSTANCE, YOU CAN JUST SEE
5 THE TOP OF THE BREASTBONE. THIS IS THE RIGHT LUNG, THIS IS
6 THE LEFT LUNG. THESE ARE THE BLOOD VESSELS IN THE CENTER OF
7 THE CHEST. THIS IS THE BACKBONE AND SHOULDER BLADE ON THE
8 RIGHT SIDE AND THE LEFT SIDE.

9 AT THIS LEVEL HERE, YOU JUST START TO SEE
10 SOMETHING THAT SHOULDN'T BE THERE.
11 Q. LET ME ASK YOU THIS: WHAT IMAGE IS THAT, FOR THE
12 RECORD --
13 A. IMAGE 6-C.
14 Q. -- DOCTOR.
15 A. 6 PLUS C.
16 Q. HAVE YOU HAD A DEMONSTRATIVE EXHIBIT PREPARED
17 THAT ACTUALLY HAS THESE PICTURES ON IT?
18 A. YES, I DO.
19 Q. WOULD IT BE HELPFUL IN DESCRIBING WHAT'S GOING ON
20 TO USE IT TO DEMONSTRATE THAT?
21 A. YES, IT WOULD.
22 MR. OHLEMAYER: YOUR HONOR, I'D LIKE TO MARK
23 THIS AS DEFENDANT'S NEXT IN ORDER.
24 THE CLERK: DEFENDANT'S EXHIBIT 2802.
25 (DOCUMENT MORE PARTICULARLY
26 DESCRIBED IN THE INDEX MARKED
27 FOR IDENTIFICATION DEFENDANT'S
28 EXHIBIT # 2802)
JUDITH ANN OSSA, CSR NO. 2310

0029
1 MR. OHLEMAYER: Q. AS WE GET STARTED HERE,
2 DOCTOR, WHY DON'T YOU -- JUST SO WE CAN ORIENT IT, IF YOU
3 WOULD WRITE NEXT TO EACH OF THESE PICTURES WHICH PART OF
4 THAT CT SCAN IT RELATES TO.
5 A. DO YOU WANT ME TO MARK ON IT?
6 Q. YES, UNLESS YOU HAVE AN OBJECTION?
7 MS. CHABER: I DON'T HAVE ANY OBJECTION.
8 MR. OHLEMAYER: YES.
9 MS. CHABER: THIS IS FOR DEMONSTRATIVE
10 PURPOSES?
11 MR. OHLEMAYER: CORRECT.
12 THE WITNESS: THIS IS IMAGE 6 PLUS C, 7 PLUS C,
13 8 PLUS C (MARKING EXHIBIT).
14 MR. OHLEMAYER: Q. YOU'VE NUMBERED SIX THROUGH
15 12 PLUS C?
16 A. THAT'S CORRECT.
17 Q. AND JUST SHOW US ON THE X-RAY OR THE CT SCAN
18 FILMS WHICH ONES YOU'RE TALKING ABOUT.
19 A. I'M TALKING ABOUT THESE IMAGES, 6, 7, 8, 9, 10,
20 11, 12 AND 13. 6, 7, 8, 9, 10, 11, 12 AND 13. THESE ARE
21 OBVIOUSLY ENLARGED.
22 Q. AND WHAT IS IT ABOUT -- WHAT CAN YOU TELL ABOUT
23 WHERE MS. HENLEY'S CANCER MIGHT HAVE STARTED, BASED ON YOUR
24 REVIEW OF THOSE CT SCANS?
25 A. WELL, LET ME START BY SAYING, CANCER OF THE LUNG
26 HAS A CHARACTERISTIC APPEARANCE AND PATTERN OF SPREAD. YOU
27 FIND SOMETHING IN THE LUNG, IN THE VAST MAJORITY OF CASES,
28 AND WHEN IT SPREADS, IT USUALLY SPREADS TO LYMPH NODES.
JUDITH ANN OSSA, CSR NO. 2310

0030
1 AND THOSE LYMPH NODES -- THOSE CANCERS DRAIN
2 THROUGH CERTAIN LYMPH NODES IN A VERY PREDICTABLE WAY. NOT
3 ENTIRELY ALL THE TIME 100 PERCENT PREDICTABLE, BUT THERE IS
4 A MAPPING OF THE LYMPH NODES THAT ARE CHARACTERISTICALLY
5 USED IN DRAINING THE LUNG NORMALLY, AND IT'S TO THOSE NODES
6 THAT CANCER GOES.
7 Q. DO YOU SEE THAT CHARACTERISTIC PATTERN IN THIS OR
8 THESE CT SCANS?
9 A. NO.
10 Q. CAN YOU SHOW US -- CAN YOU COMPARE AND CONTRAST
11 THE DIFFERENCES IN THIS CT SCAN COMPARED TO THE

12 CHARACTERISTIC PATTERN YOU TYPICALLY SEE IN A PATIENT WHO
13 HAS A CANCER THAT STARTED IN THE LUNG?

14 A. FIRST OF ALL, YOU WANT TO SEE SOMETHING IN THE
15 LUNG AND BY CAT SCAN THAT CAN IDENTIFY SOMETHING DOWN TO THE
16 SIZE OF A PEA, MAYBE SMALLER.

17 THERE IS NOTHING IN THE CAT SCAN, NOTHING TO
18 DEMONSTRATE A MASS OR A NODULE, OR ANYTHING THAT WOULD BE
19 THE SITE OF ORIGIN FOR A LUNG CANCER.

20 ON THIS, THE LYMPH NODES THAT CHARACTERISTICALLY
21 DRAIN A LUNG CANCER ARE NOT NODES NEXT TO THAT MASS OR
22 NODULE, AND THEN SPREAD UP THE TRACHEAL BRONCHIAL TREE IN A
23 CHARACTERISTIC WAY.

24 THOSE NODES ARE LOCATED AROUND THE WINDPIPE, ALL
25 THE WAY UP THE CENTER OF THE CHEST, AND THOSE NODES ARE
26 USUALLY INVOLVED UNTIL THE CANCER BREAKS INTO THE SYSTEM AND
27 ESTABLISHES SITES OUTSIDE THE CHEST.

28 Q. IS THERE ANY EVIDENCE IN MS. HENLEY'S CT SCANS OF
JUDITH ANN OSSA, CSR NO. 2310

0031 1 INVOLVEMENT OF LYMPH NODES OR ABNORMALITIES IN THOSE LYMPH
2 NODES?

3 A. WELL, IN FACT, THE MASS IS SO LARGE THAT IT'S
4 ALMOST HARD TO CONCEIVE THAT IT DOESN'T INVOLVE A LYMPH
5 NODE, IF ONLY BY DIRECT GROWTH.

6 DOWN HERE (INDICATING), RIGHT ON THE WINDPIPE, IT
7 ALMOST CERTAINLY HAS BUMPED INTO A NODE. BUT THE MAJORITY
8 OF THE MASS IS IN A REGION WHERE, CHARACTERISTICALLY, YOU
9 MAY FIND A NODE, BUT IT DOESN'T USUALLY DRAIN THE LUNG.

10 Q. ARE THERE ANY LYMPH NODES THAT APPEAR TO BE
11 ABNORMAL AS A RESULT OF THE SPREAD OF A CANCER FROM ANYWHERE
12 IN THE BODY?

13 A. AS I SAY, DOWN HERE (INDICATING), WHEN IT'S
14 VIRTUALLY BUMPING UP AGAINST THE WINDPIPE, IT HAS
15 ENCOUNTERED AND MAYBE ENGULFED SOME LYMPH NODES.

16 BUT MOST OF THE OTHER LYMPH NODES IN THE CHEST
17 THAT ARE AROUND THE WINDPIPE ARE NOT EVEN SUSPICIOUS TO BE
18 ENLARGED.

19 Q. IN A TYPICAL CASE IN A CANCER THAT STARTED IN THE
20 LUNG, WOULD YOU EXPECT TO FIND SUSPICIOUS THINGS IN THOSE
21 LYMPH NODES?

22 A. YES. THEY WOULD CERTAINLY BE ENLARGED.

23 Q. WHAT ABOUT -- WHAT ELSE ABOUT THE APPEARANCE OF
24 THIS TUMOR MAKES IT LOOK MORE OR LESS LIKE A TYPICAL CANCER
25 THAT STARTED IN THE LUNG, BASED ON THE CT SCANS, IF
26 ANYTHING?

27 A. WELL, FIRST OF ALL, AS I SAID, THERE'S NOTHING
28 THAT I CAN SEE THAT'S DEFINITIVE IN THE LUNG. THIS IS

JUDITH ANN OSSA, CSR NO. 2310

0032 1 ACTUALLY IN THE CENTER OF THE CHEST (INDICATING). IT'S
2 AGAINST VESSELS AND THE MAIN WINDPIPE, WHICH IS A PART OF
3 THE CHEST WE CALL THE MEDIASTINUM, THAT PART BETWEEN THE
4 LUNGS, FROM THE THORACIC INLET TO THE DIAPHRAGM, BETWEEN THE
5 LUNGS, WHICH INCLUDES THE HEART AND THE ESOPHAGUS AND THE
6 WINDPIPE AND THE LYMPH NODES.

7 IN FRONT, YOU HAVE THE THYMUS GLAND OR RESIDUAL
8 COMPONENTS OF THE THYMUS GLAND, AND ALL OF THOSE ARE
9 COLLECTIVELY KNOWN AS THE MEDIASTINUM.

10 THIS MASS IS LOCATED IN THE MEDIASTINUM
11 (INDICATING). BUT FURTHERMORE, IN THE MEDIASTINUM, IT HAS
12 SPREAD TO AN AREA -- IT'S INVOLVING AN AREA OF THE
13 MEDIASTINUM RIGHT BEHIND THE BREASTBONE AND IN FRONT OF THE
14 VESSELS, BUT NOT AROUND THE WINDPIPE, THE MAIN WINDPIPE

15 HERE, WHERE YOU WOULD ORDINARILY FIND THE LYMPH NODES.
16 CHARACTERISTICALLY LOCATED IN THE ANTERIOR
17 MEDIASTINUM IS THE THYMUS GLAND. SO THAT HAS TO BE SAID.
18 THE OTHER IS THAT THIS MASS EXTENDS, IN FACT, TO
19 THE RIGHT OF THE MIDLINE. AT THIS POINT HERE, YOU CAN SEE
20 AT THIS POINT THAT IT IS TO THE RIGHT OF THE MIDLINE, THE
21 MIDLINE BEING RIGHT HERE (INDICATING).

22 Q. "MIDLINe" BEING WHAT? THE MIDLINE OF WHAT?

23 A. THE MIDLINE OF THE BODY, GOING STRAIGHT DOWN HERE
(INDICATING).

24 SO THAT ALTHOUGH THE MAJORITY OF THE MASS IS IN
25 THE LEFT CHEST, IT HAS GROWN SO LARGE THAT IT HAS CROSSED
26 INTO THE RIGHT CHEST.

27 Q. WHAT DOES THAT HAVE TO DO, IF ANYTHING, WITH THE
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1 QUESTION OF WHETHER OR IF THIS WAS A TUMOR THAT STARTED IN
2 THE LUNG?

3 A. WELL, IT SPEAKS TO THE FACT THAT THE THYMUS GLAND
4 IS A MIDLINE STRUCTURE, AND THERE IS A RIGHT AND A
5 LEFT-SIDED COMPONENT.

6 LYMPH NODES CHARACTERISTICALLY THAT CONTAIN
7 CANCER WILL BE ASSOCIATED WITH OTHER LYMPH NODES, OFTEN, AT
8 LEAST INITIALLY, AS SEPARATE NODULES, AND IN TIME WILL
9 COALESCE, BUT SELDOM IS IT ONE MASS THAT GROWS ACROSS THE
10 MIDLINE.

11 FURTHERMORE, THE CONTOUR OF THIS MASS IS
12 EXTREMELY SMOOTH.

13 Q. AND WHAT DOES THE CONTOUR OF THE MASS HAVE TO DO
14 WITH TRYING TO DETERMINE WHERE IT MIGHT HAVE STARTED?

15 A. WELL, THE CONTOUR IS SMOOTH, WHICH MEANS TO ME
16 THAT IT'S RESPECTING SOME KIND OF BOUNDARY. A CANCER IN THE
17 LUNG HAS TENTACLES, HAS CELL PROCESSES AS IT'S GROWING INTO
18 THE SURROUNDING PORTION OF THE LUNG.

19 AND THIS IS AGAINST THE LUNG, BUT IT IS NOT
20 WITHIN THE LUNG. AND IN FACT, IT HAS A SMOOTH BORDER
21 BETWEEN WHAT IS OBVIOUSLY TUMOR AND WHAT IS OBVIOUSLY LUNG.

22 AND IT MAKES ME THINK THAT THERE IS SOME KIND OF
23 CAPSULE OR NATURAL TISSUE BARRIER BETWEEN THE TUMOR AND THE
24 LUNG ITSELF.

25 Q. AND WHAT'S THE SIGNIFICANCE OF THAT?

26 A. WELL, THE THYMUS IS A CAPSULE, AND IF THIS MASS
27 WERE WITHIN THE LUNG, YOU WOULD EXPECT THIS MARGIN TO BE
28 QUITE IRREGULAR. AND IF THIS MASS REPRESENTS A TUMOR IN THE

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1 THYMUS GLAND, IT WOULD AT LEAST INITIALLY RESPECT THAT
2 CAPSULE BOUNDARY, UNTIL IT GROWS THROUGH.

3 Q. DOCTOR, HAVE YOU ALSO HAD AN ARTIST TAKE THESE
4 X-RAYS AND PREPARE A DEMONSTRATIVE EXHIBIT THAT WOULD HELP
5 EXPLAIN WHERE THINGS ARE LOCATED?

6 A. YES, I HAVE.

7 MR. OHLEMAYER: LET ME MARK THAT AS THE
8 DEFENDANT'S NEXT TWO IN ORDER YOUR HONOR.

9 THE CLERK: DEFENDANT'S EXHIBIT 2803.

10 (DOCUMENT MORE PARTICULARLY
11 DESCRIBED IN THE INDEX MARKED
12 FOR IDENTIFICATION DEFENDANT'S
13 EXHIBIT # 2803)

14 MR. OHLEMAYER: ACTUALLY, THE NEXT THREE IN
15 ORDER.

16 THE CLERK: AND 2804 AND 2805.

17 (DOCUMENTS MORE PARTICULARLY

18 DESCRIBED IN THE INDEX MARKED
19 FOR IDENTIFICATION DEFENDANT'S
20 EXHIBITS # 2804 AND 2805)

21 THE COURT: TATSUO, ONE MINUTE AGO, DID YOU SAY
22 2802?

23 HOW DID WE GET FROM 2802 TO 2843? DID I
24 MISHEAR?

25 MR. OHLEMAYER: I HAVE 03, 04, 05 HERE, YOUR
26 HONOR.

27 THE COURT: I THOUGHT TATSUO SAID 2843.

28 THE CLERK: 2803.

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0035 THE COURT: OKAY. 2803, 2804 AND 2805?

THE CLERK: YES.

THE COURT: I MISSED THAT.

IS THERE ANY OBJECTION TO THOSE?

MR. OHLEMAYER: THEY ARE FOR DEMONSTRATIVE
PURPOSES.

THE COURT: ANY OBJECTION?

MS. CHABER: NOT FOR DEMONSTRATIVE PURPOSES.

THE COURT: OKAY. YOU MAY PROCEED.

MR. OHLEMAYER: Q. REFERRING TO THE NUMBER ON
IT, DOCTOR, WHY DON'T YOU DESCRIBE FOR US WHAT IT REPRESENTS
WITH RESPECT TO WHAT WE'RE SEEING ON THE X-RAY BOX.

A. THIS X-RAY (INDICATING) IS THE SAME AS THAT
X-RAY. IT IS TAKEN FROM A NEGATIVE OF THIS X-RAY. IT IS
THE SAME PICTURE. IT IS SLIGHTLY ENLARGED FOR THE PURPOSES
OF DEMONSTRATION.

AND THIS IS A DRAWING OF THE VARIOUS STRUCTURES
IN THE CHEST THAT I CAN PROJECT, BASED UPON THE FINDINGS OF
THE CAT SCAN.

AND WE'LL CALL THIS THE RIGHT LUNG AND THIS IS
THE LEFT LUNG, THIS IS THE HEART, THIS IS THE MAIN WINDPIPE
THAT SPLITS HERE. HALF GOES TO THE RIGHT SIDE, HALF GOES TO
THE LEFT SIDE. THAT IS THE MAIN BLOOD VESSEL FROM THE
HEART, THE AORTA THAT FEEDS THE REST OF THE BODY. THIS IS
THE MAIN BLOOD VESSEL FROM THE RIGHT SIDE OF THE HEART.
THIS PART GOES TO THE RIGHT LUNG AND THIS PART GOES TO THE
LEFT LUNG.

AND AT THIS POINT HERE, THE MAIN BLOOD VESSELS
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0036 PINCH OFF. THERE IS VIRTUALLY NO BLOOD FLOWING TO THE RIGHT
OR TO THE LEFT LUNG BECAUSE OF THE MASS.

THE MASS IS LOCATED RIGHT HERE. IT HAS A VERY
SMOOTH MARGIN. IT IS ON TOP OF EVERYTHING. IT IS AROUND
IT. IT IS BETWEEN THE BREASTBONE, WHICH IS IN FRONT OF THE
EXHIBIT, AND THE WINDPIPE BACK HERE. AND THE MAIN BLOOD
VESSELS IT HAS LYING RIGHT BEHIND THE BREASTBONE.

Q. CAN I INTERRUPT YOU FOR A MINUTE, DOCTOR.

OBVIOUSLY YOU WEREN'T INVOLVED IN MS. HENLEY'S
DIAGNOSIS OR TREATMENT; RIGHT?

A. CORRECT.

Q. HOW IS IT THAT YOU KNOW OR CAN SAY WHERE THE MASS
WAS WITH RESPECT TO THESE OTHER ORGANS?

A. WELL, YOU CAN TELL THAT FROM THE CAT SCAN AND THE
CHEST X-RAY.

Q. I'M SORRY. THEN EXPLAIN FOR US WHAT OTHER
SIGNIFICANT GEOGRAPHY OR ANATOMY IS THERE.

A. I'D LIKE TO SHOW THE SIDE VIEW. I THINK THAT
WILL BE OF VALUE AS WELL.

Q. WHICH IS NUMBER 2804.

21 A. THE SIDE VIEW, THIS IS THE CHEST X-RAY TAKEN ON
22 THE SAME DAY. AND AS BEFORE, IT HAS BEEN ENLARGED TO MATCH
23 THE SIZE OF THE DRAWING.

24 AND ONCE AGAIN, THE MASS IS FOUND IN THIS REGION
25 RIGHT HERE (INDICATING), ACCORDING TO THE MASS THAT I SEE IN
26 THIS REGION RIGHT HERE. IT LIES OVER THE TOP OF THE
27 VESSELS, AND IT COMES DOWN ONTO THE WINDPIPE. IT PINCHES
28 OFF -- IN FACT, IT SURROUNDS THE BLOOD VESSEL FEEDING BLOOD
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0037 1 FROM THE HEART TO THE LEFT LUNG, AND THAT HELPS TO PINPOINT
2 WHERE THE MASS IS.

3 BUT NOTE ALSO THAT THERE IS A NERVE HERE THAT IS
4 INDICATED IN YELLOW THAT RUNS BEHIND THE MASS AND BACK UP
5 BESIDE THE WINDPIPE.

6 Q. WHAT NERVE IS THAT?

7 A. THAT IS THE LEFT RECURRENT LARYNGEAL NERVE.

8 Q. AND WHAT, IF ANYTHING, IS SIGNIFICANT ABOUT WHERE
9 THE TUMOR IS COMPARED TO WHERE THE NERVE IS?

10 A. WELL, CHARACTERISTICALLY, THERE IS A SET OF LYMPH
11 NODES LOCATED RIGHT ON THE NERVE. AND CHARACTERISTICALLY,
12 THOSE NODES ARE INVOLVED IN THE DRAINAGE OF UPPER LOBE
13 TUMORS.

14 Q. UPPER LOBE OF THE LUNG?

15 A. OF THE LUNG.

16 AND WHEN THAT NODE IS INVOLVED WITH CANCER, IT
17 OFTEN EARLY ON PINCHES OFF THE NERVE. IT INVOLVES THE
18 NERVE, IT INVADES THE NERVE.

19 AND THIS IS WHY I SAID WHAT I DID ABOUT A PATIENT
20 PRESENTING WITH A HOARSE VOICE. THAT'S THE NERVE THAT I'VE
21 BEEN REFERRING TO AS A RECURRENT LARYNGEAL PALSY.

22 Q. IS THERE ANY EVIDENCE ON THE CT SCANS THAT THAT
23 NERVE IS INVOLVED OR BEING AFFECTED ABNORMALLY BY ANYTHING
24 IN THE BODY AT THIS POINT?

25 A. WELL, IT CERTAINLY IS IN THE REGION. BUT THE
26 REASON THAT I SHOWED IT SPARED IS THAT THERE WAS NOTHING IN
27 THE CLINICAL RECORD TO INDICATE THAT THE PATIENT HAD ANY
28 PROBLEM WITH HER VOICE.

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0038 1 Q. DO CANCERS THAT BEGIN IN THE LUNG TYPICALLY NOT
2 SPARE THAT NERVE?

3 A. LUNG CANCERS CHARACTERISTICALLY THAT ARE UPPER
4 LOBE --LEFT UPPER LOBE OF THE LUNG DRAIN INTO LYMPH NODES
5 AROUND THAT NERVE.

6 AND CHARACTERISTICALLY -- NOT ALWAYS, BUT USUALLY
7 WHEN THAT NERVE -- WHEN THOSE NODES ARE INVOLVED, THEY CAN
8 PINCH OFF THAT NERVE.

9 Q. LET ME ASK YOU TO ASSUME, DOCTOR, THAT THERE HAS
10 BEEN SOME TESTIMONY IN THE CASE THAT MS. HENLEY'S VOICE --
11 THAT SHE PERCEIVED HER VOICE TO BE GETTING LOWER WITHIN A
12 FEW MONTHS OF THE TIME SHE WAS DIAGNOSED WITH HER CANCER.

13 IS THAT THE TYPE OF HOARSENESSE YOU WERE
14 DESCRIBING?

15 A. NO. I'M DESCRIBING A HOARSENESSE, NOT A PITCH.
16 I'M DESCRIBING, IF I CAN DEMONSTRATE, A VOICE LIKE THAT THAT
17 CRACKS (DEMONSTRATING), THAT CAN'T PROJECT.

18 IN FACT, PATIENTS SOMETIMES HAVE DIFFICULTY
19 SWALLOWING. BUT WHEN WE SWALLOW, THE FIRST THING WE DO IS
20 WE CLOSE OUR VOICE BOX OFF.

21 AND WITH THE PARALYZED NERVE, THEY HAVE NOT ONLY
22 A HOARSENESSE BUT SOMETIMES DIFFICULTY IN SWALLOWING. AND I
23 COULDN'T SEE ANYTHING IN THE RECORD THAT THE PATIENT WAS

24 ACTUALLY CHOKING OR COULDN'T PROJECT HER VOICE OR HAD ANY
25 HOARSENESS IN THAT SENSE.
26 Q. WHAT ELSE, IF ANYTHING, IS SIGNIFICANT ABOUT THIS
27 X-RAY WITH RESPECT TO THE QUESTION OF WHERE THE TUMOR BEGAN?
28 A. ONCE AGAIN, IT HAS A SMOOTH MARGIN ON THIS TUMOR,
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1 AS WE KNOW FROM THE CAT SCAN, AND IT EXTENDS UP FRONT,
2 BEHIND THE BREASTBONE. AND THAT'S NOT WHERE LYMPH NODES ARE
3 THAT DRAIN THE LUNG.

4 Q. AND THEN, YOU HAVE ANOTHER DRAWING THAT PUTS THEM
5 SIDE TO SIDE. THAT'S 2805.

6 A. IN FACT, WHAT I MIGHT SUGGEST IS THAT IF YOU WERE
7 TO DRAW WHERE THE THYMUS WOULD BE LOCATED, IT WOULD BE
8 LOCATED IN THIS REGION HERE (INDICATING).

9 Q. THAT'S WHAT THE YELLOW OVERLAY REPRESENTS THAT
10 YOU JUST PUT UP THERE?

11 A. THE YELLOW OVERLAY REPRESENTS THE LOCATION OF A
12 NORMAL THYMUS. IT IS NOT DRAWN FROM ANY ANATOMIC
13 BOUNDARIES, BUT IT IS DRAWN FROM THE SITE WHERE THE THYMUS
14 FREQUENTLY IS LOCATED. THE THYMUS HAS BEEN FOUND RESTING UP
15 IN THE CHEST. IT HAS BEEN FOUND RESTING DOWN ON THE
16 DIAPHRAGM. IT IN FACT HAS BEEN FOUND -- IN ONE CASE, A
17 TUMOR ON THE THYMUS UNEQUIVOCALLY WAS FOUND WITHIN THE LEFT
18 LUNG.

19 ALL OF THOSE ARE SOMEWHAT UNUSUAL. BUT THIS IS
20 THE USUAL LOCATION OF THE THYMUS GLAND (INDICATING).

21 Q. WHAT DETERMINES WHERE YOU FIND IT? WHAT
22 DETERMINES WHERE YOU FIND A NORMAL THYMUS IN A TYPICAL
23 PERSON?

24 A. WELL, EVERYBODY IS BORN WITH A THYMUS GLAND. IT
25 ARISES FROM ELEMENTS IN THE NECK AND DESCENDS BEHIND THE
26 BREASTBONE IN EMBRYOLOGY, WHEN WE'RE BEING DEVELOPED IN THE
27 UTERUS.

28 HOW FAR IT GOES -- AS YOU KNOW, THIS IS THE USUAL
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1 LOCATION. BUT WHY SOMETIMES IT GOES FURTHER DOWN AND OTHER
2 TIMES RESTS OR IS FOUND UP IN THE NECK, I DON'T THINK
3 ANYBODY KNOWS.

4 Q. WE ALSO HEARD TESTIMONY ABOUT WHAT'S CALLED
5 "INVOLVED THYMUS."

6 WHAT DOES THAT MEAN?

7 A. IN NORMAL PEOPLE, THE THYMUS, BY THE TIME WE'RE
8 TEENAGERS, HAS DONE ITS JOB, WHICH IS EDUCATING LYMPHOCYTES
9 TO KNOW HOW TO RECOGNIZE CELLS VERSUS SOMETHING ELSE.
10 "SOMETHING ELSE" BEING, FOR INSTANCE, CERTAIN TYPES OF
11 INFECTIONS OR AN ORGAN TRANSPLANT.

12 AND SO AS TIME GOES BY, THEY HAVE BEEN EDUCATED.
13 THE THYMUS HAS ESSENTIALLY DONE ITS JOB, AND IT SIMPLY
14 SHRIVELS UP.

15 AND SO USUALLY, YOU DON'T SEE A THYMUS ON A CHEST
16 X-RAY OR A CAT SCAN. IF YOU CAN, IT'S PROBABLY ENLARGED AND
17 ABNORMAL.

18 Q. IN MS. HENLEY'S CHEST X-RAY OR CT SCANS, CAN YOU
19 OBSERVE A THYMUS OR A RESIDUAL THYMUS?

20 A. NO, I CAN'T. THERE ARE -- THERE ARE SOME
21 TISSUES -- THERE ARE SOME IMAGES -- SOME OTHER IMAGES -- I'M
22 SORRY -- THAT SUGGEST THAT THERE MAY BE SOME FAT IN THE
23 MEDIASTINUM, WHICH IS USUALLY FOUND.

24 BUT NOTHING THAT YOU CAN SAY "YES, THERE IS
25 RESIDUAL THYMUS. THEREFORE, THERE MUST BE SOME OBVIOUS
26 ABNORMALITY IN THE THYMUS."

27 Q. WHAT IS THE RELATIONSHIP BETWEEN THE FINDING OF
28 RESIDUAL THYMUS OR THE LACK THEREOF AND THE POSSIBILITY THAT
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1 A TUMOR, IN PARTICULAR, THIS TUMOR WAS ONE THAT MIGHT HAVE
2 STARTED IN THE THYMUS?

3 A. PROBABLY NONE. IF YOU HAVE -- IF YOU CAN SEE ANY
4 THYMUS, IT MAKES YOU WONDER WHETHER THERE'S SOME OTHER
5 DISEASE PROCESS GOING ON.

6 BUT THE MASS IS FAIRLY WELL DEMARCATED. IT
7 DOESN'T SEEM TO BE EXTENDING THROUGH THE REST OF THE THYMUS
8 GLAND, AND THAT'S USUALLY THE CASE. SOMETIMES YOU CAN FIND
9 TUMORS THAT HAVE GROWN FROM A THYMUS THAT LOOKS LIKE IT IS
10 STARTING TO ACT UP AGAIN, AS IF IT'S BECOME REACTIVATED BY
11 SOMETHING. I HAVE NO IDEA WHAT.

12 AND SO FINDING A THYMIC TUMOR ISN'T
13 PARTICULARLY -- THINGS CALLED THYMOMAS IN THE PRESENCE OF
14 HYPERPLASTIC THYMUS IS NOT UNCOMMON, BUT I DON'T SEE THAT
15 PARTICULAR SCENARIO HERE.

16 Q. SO IF I UNDERSTAND WHAT YOU ARE SAYING, THE
17 PRESENCE OF A THYMUS OR A PORTION OF THE THYMUS DOESN'T MAKE
18 IT MORE OR LESS LIKELY THAT YOU CAN HAVE A TUMOR THAT
19 STARTED IN SOME PART OF THE THYMUS?

20 A. STATISTICALLY, YES. IF IT'S ABSENT, IT DOESN'T
21 MEAN IT'S LESS LIKELY. IF IT'S PRESENT, IT MEANS THAT IT IS
22 MORE LIKELY.

23 Q. AND THEN, DESCRIBE FOR US WHAT YOU'VE DONE HERE
24 ON 2805.

25 A. THIS EXHIBIT SHOWS WHERE THE LYMPH NODES ARE
26 USUALLY LOCATED. THE GREEN LYMPH NODES ARE THE LYMPH NODES
27 THAT ARE VISIBLE. THE BROWN ONES ARE THE ONES THAT ARE
28 TUCKED BEHIND VESSELS. AND YOU CAN SEE THAT,

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1 CHARACTERISTICALLY, THEY ARE LOCATED AROUND THE WINDPIPE
2 FROM THE FRONTAL VIEW, AND ON THE SIDE VIEW.

3 NOTE ALSO THAT THIS LYMPH NODE HERE ON THE NERVE
4 (INDICATING) IS THE LYMPH NODE THAT I WAS COMMENTING ON
5 BEFORE. AND THE MASS APPARENTLY HAS SPARED THAT REGION
6 BECAUSE IT IS AN ANTERIOR MASS.

7 Q. AND AGAIN, WHAT SIGNIFICANCE DOES THAT HAVE IN
8 TRYING TO DETERMINE WHETHER THIS WAS A TUMOR THAT STARTED IN
9 THE LUNG?

10 A. WELL, IF THERE WERE ENLARGED LYMPH NODES, YOU MAY
11 POSTULATE -- PARTICULARLY IF THE LYMPH NODES IN A PARTICULAR
12 DRAINAGE PATTERN WERE ENLARGED, YOU MAY WANT TO WONDER
13 WHETHER THERE'S SOMETHING GOING ON IN THE LUNG THAT WOULD
14 DIRECT YOUR ATTENTION AT THE TIME OF BRONCHOSCOPY TO TAKE
15 SAMPLES FROM THAT PART OF THE LUNG, OR TO LOOK MORE
16 CAREFULLY AT THE X-RAY AT THAT PORTION OF THE LUNG.

17 Q. ALL RIGHT. DOCTOR, I THINK YOU CAN PROBABLY TAKE
18 YOUR SEAT. AND IF YOU WANT TO REFER TO THIS FOR ANY OF THE
19 OTHER QUESTIONS I ASK, I WILL PULL IT UP FOR YOU. MAYBE IT
20 WOULD BE EASIER FOR YOU NOW TO TAKE YOUR SEAT.

21 A. THIS OVERLAY IN FACT IS WHERE YOU WOULD FIND THE
22 THYMUS ON THE FRONTAL VIEW.

23 Q. THAT IS THE 2803, EXHIBIT 2803.

24 IS WHAT YOU ARE REFERRING TO NOW?

25 A. THAT'S CORRECT.

26 Q. DOCTOR, LET ME ASK YOU THIS QUESTION: YOU'VE
27 REVIEWED THE MEDICAL RECORDS, INCLUDING THE PATHOLOGY REPORT
28 IN THIS CASE; RIGHT?

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1 A. YES, I HAVE.

2 Q. AND THAT WAS THE REPORT OF THE DOCTOR WHO WAS
3 ASKED TO LOOK AT THE BIOPSY THAT WAS TAKEN?

4 A. THAT'S CORRECT.

5 Q. AM I CORRECT THAT THE -- YOU TELL ME -- WHERE WAS
6 THE TISSUE TAKEN THAT WAS SUBMITTED FOR THE BIOPSY?

7 A. THE OPERATIVE NOTE IS RATHER BRIEF. I CAN'T TELL
8 YOU EXACTLY WHERE IT IS, BUT I CAN TELL YOU THE MOST LIKELY
9 AREA THAT IT WAS TAKEN, AND THAT IS IN THE SAFEST AREA TO
10 BIOPSY, THAT IS THE PART BEHIND THE BREASTBONE, UP FRONT
11 (INDICATING), NOT DOWN AT THE ROOTS OF THE LUNG WHERE THE
12 TUMOR HAS BEEN INVOLVING BLOOD VESSELS AND WHERE IT IS CLOSE
13 TO NERVES.

14 Q. IS THERE ANY DOUBT IN YOUR MIND OR ANY QUESTION
15 AS TO WHETHER THIS BIOPSY WAS TAKEN FROM INSIDE THE LUNG OR
16 OUTSIDE THE LUNG?

17 A. OH, IT WAS TAKEN FROM OUTSIDE THE LUNG.

18 Q. AND THAT'S SOMETHING THAT YOU CAN DETERMINE FROM
19 READING THE OPERATIVE REPORT?

20 A. NOT ONLY THAT, BUT IF THERE WERE A BIOPSY DONE
21 INSIDE THE LUNG, THE LUNG, BEING A SPONGE-LIKE STRUCTURE,
22 WOULD LEAK AIR. AND AT THE END OF THE OPERATION, IT WOULD
23 CONTINUE TO LEAK AIR, AND YOU'D HAVE A COLLAPSED LUNG IN THE
24 VAST MAJORITY OF CASES.

25 IN FACT, IT WOULD BE STANDARD PROCEDURE IF YOU
26 TOOK A BIOPSY OF THE LUNG TO LEAVE A TUBE INSIDE FOR AT
27 LEAST A COUPLE OF DAYS TO LET THE LUNG SEAL UP.

28 AND I KNOW, IN FACT, THAT IN THIS OPERATION, THAT
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1 ONE WASN'T LEFT IN. ONE WAS DONE TO EVACUATE AIR THAT MAY
2 HAVE ENTERED THE CHEST AT THE TIME OF THE PROCEDURE, BUT
3 THERE WAS NO CONTINUING AIR LEAK.

4 AND IN FACT, IN THE X-RAYS AFTER THE OPERATION,
5 THERE WAS NO EVIDENCE OF AIR LEAKING FROM THE SURFACE OF THE
6 LUNG. SO THIS WAS NOT A BIOPSY OF THE LUNG ITSELF.

7 Q. HAVE YOU PERFORMED PROCEDURES CALLED
MEDIASTINOTOMIES AND MEDIASTINOSCOPIES?

8 A. OH, YES.

9 Q. THAT'S SOMETHING DIFFERENT THAN A BRONCHOSCOPY?

10 A. YES.

11 Q. THE BIOPSY IN THIS CASE WAS OBTAINED THROUGH A
MEDIASTINOTOMY?

12 A. THAT'S CORRECT.

13 Q. YOU DON'T DISAGREE WITH THE PATHOLOGICAL
DIAGNOSIS OF SMALL CELL CARCINOMA, DO YOU?

14 A. NO, NOT AT ALL.

15 Q. BASED ON YOUR REVIEW OF THE AVAILABLE RECORDS AND
16 BASED ON YOUR REVIEW OF THE CT SCANS AND BASED ON YOUR
REVIEW OF THE X-RAYS, DO YOU HAVE AN OPINION AS TO WHETHER
21 IT'S MORE OR LESS LIKELY THAT THIS WAS A TUMOR THAT ACTUALLY
22 STARTED IN A BRONCHUS OR IN AN AIRWAY OF THE LUNG?

23 A. I THINK THE FIRST REASONABLE IMPRESSION IS THAT
24 THIS MAY BE LUNG. CERTAINLY LOOKING AT THE CHEST X-RAY AND
25 HEARING THAT SOMEBODY HAS PRESENTED COUGHING UP SOME BLOOD,
I THINK THAT HAS TO RUN ACROSS YOUR MIND.

26 BUT THE MORE I LOOKED AT THE CASE, WHERE NOTHING
APPEARED ON THE CHEST X-RAY IN THE LUNG, NOTHING ON THE CAT

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1 SCAN THAT WAS WITHIN THE LUNG, A SPUTUM CYTOLOGY WAS
2 NEGATIVE, DESPITE THE FACT THAT SHE IS COUGHING UP BLOOD,

3 AND A BRONCHOSCOPY WAS PERFORMED WHICH FAILED TO REVEAL ANY
4 EVIDENCE OF TUMOR IN THE WINDPIPE, I THINK IT'S REASONABLE
5 TO QUESTION WHETHER OR NOT THAT PRESUMPTION IS ACCURATE,
6 ESPECIALLY SINCE WE KNOW THAT SMALL CELL CARCINOMA CAN ARISE
7 ELSEWHERE.

8 AND IN THIS CASE, WITHIN THE THYMUS GLAND SEEMS
9 TO BE MORE LIKELY, MUCH MORE LIKELY, THAN TO HAVE ARISED
10 (SIC) IN -- THAT THE TUMOR TO HAVE ARISED WITHIN THE LUNG.

11 Q. YOU MENTIONED SOMETHING CALLED SPUTUM CYTOLOGY.

12 WHAT IS SPUTUM CYTOLOGY, AND HOW DOES IT BEAR ON
13 THE ISSUE OF WHERE MS. HENLEY'S CANCER MIGHT HAVE STARTED?

14 A. WELL, SPUTUM CYTOLOGY IS THE ANALYSIS OF SPUTUM
15 UNDER A MICROSCOPE, LOOKING AT INDIVIDUAL CELLS IN MUCUS
16 THAT'S COUGHED UP BY ALL OF US, IN FACT.

17 AND IT IS MORE VALUABLE IN PATIENTS WHO HAVE
18 CANCER CELLS THAT ARE BEING SHED INTO THE WINDPIPE OR INTO
19 THE LINING OF THE WINDPIPE, WHICH YOU WOULD EXPECT WOULD BE
20 THE CASE OF SOMEONE WHO IS COUGHING UP BLOOD THAT HAS
21 SOMETHING GOING ON. IT IS MORE VALUABLE IN A CENTRAL TUMOR,
22 WHICH SMALL CELL CARCINOMA TENDS TO BE.

23 BY THAT, I MEAN ONE NEAR THE ROOT OF THE LUNG
24 (INDICATING), AS OPPOSED TO ONE WAY OUT ON THE SURFACE OF
25 THE LUNG, WHERE YOU MAY EXPECT THEY WOULDN'T BE COUGHING UP
26 BLOOD, AND THE SPUTUM CYTOLOGY WOULD BE NEGATIVE.

27 Q. A SMALL CELL CARCINOMA THAT YOU SUSPECT STARTED
28 IN THE LUNG OR IN AN AIRWAY, IN A BRONCHUS, WOULD YOU EXPECT

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0046 1 TO SEE A POSITIVE SPUTUM CYTOLOGY?

2 A. I WOULD EXPECT THAT IN 50 PERCENT OF CASES, YOU
3 WOULD HAVE A POSITIVE CYTOLOGY.

4 IN THIS PARTICULAR SCENARIO, YES.

5 Q. AND IN THIS CASE, IT WAS NEGATIVE?

6 A. THAT'S CORRECT.

7 Q. DOCTOR, CAN YOU SAY WITH ANY -- WELL, LET'S PUT
8 IT THIS WAY: CAN YOU SAY WITH ANY REASONABLE CERTAINTY
9 WHERE THIS TUMOR BEGAN, IF IT DIDN'T BEGIN IN THE LUNG?

10 A. WELL, FOR THE REASONS THAT I PRESENTED, ITS
11 LOCATION, ITS SMOOTH CONTOUR, ITS SPARING THE RECURRENT
12 LARYNGEAL NERVE, DESPITE REACHING THE SIZE OF OVER 6
13 CENTIMETERS, NONE OF THE LYMPH NODES ARE ENLARGED, WHERE YOU
14 WOULD EXPECT THEM TO BE ENLARGED -- AND THIS IS THE ONLY
15 EVIDENCE OF THE TUMOR -- I THINK IT'S REASONABLE TO THINK OF
16 SOMETHING ARISING WITHIN THE THYMUS GLAND.

17 Q. AND IF THIS WERE A TUMOR THAT STARTED SOMEWHERE
18 OTHER THAN THE LUNG BUT WAS FOUND WHERE IT WAS FOUND IN THE
19 CHEST, WITH THE CHARACTERISTICS AND SYMPTOMS YOU'VE
20 DESCRIBED, IN YOUR EXPERIENCE, WOULD IT HAVE BEEN TREATED
21 THE SAME WAY AS ONE THAT MIGHT HAVE STARTED IN THE LUNG?

22 A. OH, YES.

23 Q. WHY IS THAT?

24 A. WELL, SMALL CELL CARCINOMA IS A PARTICULARLY
25 AGGRESSIVE TUMOR, AND RARELY DOES IT LEND ITSELF TO PRIMARY
26 SURGICAL RESECTION.

27 Q. WHAT DO YOU MEAN BY "PRIMARY SURGICAL RESECTION"?

28 A. I MEAN THAT THE FIRST LINE OF THERAPY WOULD BE TO

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0047 1 CUT IT OUT, TO TAKE IT OUT COMPLETELY, AS OPPOSED TO GIVING
2 THE PATIENT CHEMOTHERAPY AND RADIATION THERAPY, AND SOMETIME
3 SUBSEQUENTLY, OPERATING AND TAKING IT OUT, AFTER IT'S BEEN
4 SHRUNK DOWN BY THE CHEMO AND RADIATION THERAPY.

5 MR. OHELEMEYER: YOUR HONOR, THOSE ARE ALL THE

6 QUESTIONS I HAVE.

7 THANK YOU, DOCTOR.

8 THE COURT: OKAY. MS. CHABER.

9 MS. CHABER: ARE WE GOING TO TAKE A BREAK?

10 THE COURT: DO YOU WANT TO TAKE A BREAK?

11 MS. CHABER: YES.

12 THE COURT: OKAY. JURORS, LET'S TAKE A
13 20-MINUTE RECESS UNTIL 25 MINUTES OF 4:00. PLEASE CONTINUE
14 TO FOLLOW THE ADMONITION. WE'LL SEE YOU BACK AT 25 MINUTES
15 TO 4:00.

16 (RECESS TAKEN FROM 3:15 TO 3:35 P.M.)

17 THE COURT: I THINK WE'RE READY TO PROCEED.

18 MS. CHABER.

19 IS IT HELPFUL OR NOT TO HAVE THAT BOARD THERE?

20 IF NOT, I'D JUST AS SOON MOVE IT.

21 MS. CHABER: I MAY USE SOME OF THIS.

22 THE COURT: IF YOU ARE GOING TO USE IT, KEEP THE
23 STAND.

24 MS. CHABER: THE STAND IS NOT IN THE WAY, IS
25 IT?

26 THE COURT: THAT'S FINE. OKAY.

27 28 CROSS-EXAMINATION

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0048

1 BY MS. CHABER: Q. DR. WARREN, WE'VE MET ONCE
2 BEFORE?

3 A. YES, WE HAVE.

4 Q. WHEN I TOOK YOUR DEPOSITION?

5 A. YES, MA'AM.

6 Q. YOU PREPARED NO NOTES IN THIS CASE?

7 A. NO.

8 Q. NO REPORT?

9 A. NO.

10 Q. YOU DIDN'T REVIEW THE REPORTS OF ANY OTHER
11 EXPERTS IN THIS CASE?

12 A. I REVIEWED A DEPOSITION OF DR. HAGEN.

13 Q. DID YOU REVIEW ANY REPORTS WHERE PEOPLE SET FORTH
14 WHAT THEY HAD REVIEWED, WHAT THEIR FINDINGS WERE, WHAT THEIR
15 CONCLUSIONS WERE, WHAT THE BASIS OF THOSE CONCLUSIONS WERE?
16 DID YOU REVIEW ANYTHING LIKE THAT IN THIS CASE?

17 A. I REVIEWED THE HOSPITAL RECORDS AND THE OFFICIAL
18 X-RAY REPORTS, AND WHAT I WAS PROVIDED BY MY ATTORNEYS.

19 Q. AND THEY DID NOT PROVIDE YOU, IF THERE ARE ANY,
20 ANY REPORTS FROM DR. HORN OR A DR. FEINGOLD OR A DR. HAMMAR?

21 A. I BELIEVE I -- I CAN ONLY TELL YOU THAT I READ
22 WHAT I WAS GIVEN, AND I DON'T REMEMBER ALL THE NAMES OF WHO
23 SAID WHAT.

24 Q. AND YOU BROUGHT THE MATERIALS THAT YOU WERE GIVEN
25 AND HAD REVIEWED TO YOUR DEPOSITION?

26 A. YES.

27 Q. AND AT YOUR DEPOSITION, IS IT FAIR TO SAY THAT IF
28 YOU HAD READ THE REPORTS OF DR. HORN, DR. FEINGOLD AND DR.

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0049

1 HAMMAR, YOU WOULD HAVE TOLD ME THAT?

2 A. AS WE DISCUSSED AT THE DEPOSITION, I THINK I
3 ITEMIZED EVERYTHING THAT I REVIEWED.

4 Q. AND DO I UNDERSTAND CORRECTLY THAT THE WAY YOU
5 GOT INVOLVED IN THIS CASE WAS THAT DR. GOULD, WHO PRACTICES
6 AT YOUR HOSPITAL AS WELL, BROUGHT YOU INTO IT?

7 A. I BELIEVE THAT THE GENTLEMAN FROM SHOOK, HARDY &
8 BACON ORIGINALLY DISCUSSED THIS CASE WITH DR. GOULD, AND IT

9 WAS HIS SUGGESTION THAT THEY CONTACT ME, BUT IT WAS THEY WHO
10 CONTACTED ME.

11 Q. AND DR. GOULD, YOU'RE AWARE, HAS TESTIFIED ON A
12 NUMBER OF OCCASIONS FOR SHOOK, HARDY & BACON, AND THE
13 CIGARETTE MANUFACTURERS THAT THEY REPRESENT?

14 A. I'M AWARE OF ONE OTHER SITUATION. IF THERE ARE
15 MORE, I'M NOT CERTAIN ABOUT THAT.

16 Q. WELL, YOU'RE AWARE THAT DR. GOULD HAS REGULARLY
17 CONSULTED WITH LAWYERS FROM SHOOK, HARDY & BACON ON
18 CIGARETTE-RELATED MATTERS?

19 MR. OHLEMAYER: YOUR HONOR, IF I MAY OBJECT TO
20 THIS QUESTION. THIS IS THE CROSS-EXAMINATION OF DR. WARREN,
21 NOT DR. GOULD.

22 I THINK IT'S ARGUMENTATIVE, LACKS FOUNDATION.

23 THE COURT: LACKS FOUNDATION? IT'S NOT
24 ARGUMENTATIVE, BUT IT MAY LACK FOUNDATION. THERE IS NO
25 FOUNDATION IN THE RECORD FOR IT NOW.

26 MS. CHABER: Q. YOU AND DR. GOULD HAVE
27 PUBLISHED SOME PAPERS TOGETHER?

28 A. YES, MA'AM.

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0050

1 Q. YOU WORK TOGETHER?

2 A. YES, MA'AM.

3 Q. IT WAS DR. GOULD WHO SUGGESTED THAT YOU BE
4 CONTACTED BY THE LAWYERS FROM SHOOK, HARDY & BACON?

5 A. THAT'S CORRECT.

6 Q. AND DR. GOULD IN THE PAST HAS TOLD YOU THAT HE
7 HAS CONSULTED WITH THE LAWYERS FROM SHOOK, HARDY & BACON ON
8 BEHALF OF CIGARETTE MANUFACTURERS?

9 A. YES, I AM AWARE OF THAT.

10 Q. AND IF I UNDERSTAND THE WAY YOUR REVIEW OF THE
11 MATERIALS OCCURRED, SOME LAWYERS GOT ON AN AIRPLANE AND
12 PHYSICALLY BROUGHT YOU X-RAYS TO REVIEW?

13 A. THAT'S CORRECT.

14 Q. AND THEY BROUGHT YOU THE MEDICAL RECORDS?

15 A. YES.

16 Q. AND YOU AND DR. GOULD AND THOSE LAWYERS ALL SAT
17 DOWN IN A ROOM TOGETHER AND REVIEWED THE MATERIALS; CORRECT?

18 A. WELL, WHAT WE DID WAS MET ONE SATURDAY MORNING.
19 IN FACT, DR. GOULD HAD MET WITH THESE GENTLEMEN ON A
20 PREVIOUS OCCASION A WEEK OR TWO EARLIER -- I DON'T RECALL
21 WHEN -- AND IT WAS AT THAT TIME THAT HE ASKED THEM TO SET UP
22 THIS MEETING WITH ME.

23 WHEN WE SAT DOWN IN THE ROOM, THE FIRST THING
24 THAT THEY DID WAS THEY GAVE ME THE X-RAYS TO READ. THEY
25 GAVE ME A VERY LITTLE STORY. "THIS IS A 50-YEAR-OLD WOMAN
26 AND PRESENTS WITH THESE X-RAYS. WHAT DO YOU THINK?"

27 AND SO I LOOKED AT THE X-RAYS WITHOUT A REPORT
28 AND WITHOUT ANY BACKGROUND, WITHOUT HAVING SEEN ANY

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0051

1 PATHOLOGY, WITHOUT HAVING REVIEWED ANY SLIDES, WITHOUT
2 HAVING REVIEWED ANY RECORDS.

3 Q. AND IS IT TRUE THAT DR. GOULD WAS IN THE ROOM AT
4 THE SAME TIME AS THE LAWYERS FOR SHOOK, HARDY & BACON WHILE
5 YOU WERE REVIEWING THE X-RAYS?

6 A. YES.

7 Q. AND AT THAT POINT IN TIME, YOU TOLD THEM WHAT YOU
8 THOUGHT?

9 A. I TOLD THEM A PRELIMINARY CONCLUSION.

10 Q. AND THAT HAS NEVER BEEN COMMITTED TO WRITING, HAS
11 IT?

12 A. NOT IN MY BEHALF, NO.
13 Q. YOU DIDN'T PREPARE ANYTHING AS A RESULT OF EITHER
14 THAT MEETING OR ANY OTHER SUBSEQUENT REVIEWS OF THE RECORDS?
15 A. NO.
16 Q. YOU DID NOT, WHEN YOU REVIEWED -- YOU HAVE
17 REVIEWED THESE X-RAYS NOW ON HOW MANY OCCASIONS?
18 A. FOUR OR FIVE OCCASIONS.
19 Q. AND ON ANY OF THOSE FOUR OR FIVE OCCASIONS, DID
20 YOU JOT DOWN WHAT YOUR IMPRESSIONS WERE ON THAT DAY?
21 A. NO, MA'AM.
22 Q. NOW, YOU HAVE HAD YOUR DEPOSITION TAKEN SOME 10
23 TO 12 TIMES IN THE PAST?
24 A. THAT'S CORRECT.
25 Q. AND YOU'VE TESTIFIED IN COURT TWO TIMES IN THE
26 PAST?
27 A. THAT'S RIGHT.
28 Q. LET ME ASK YOU THIS, DOCTOR: OVER YOUR ENTIRE
JUDITH ANN OSSA, CSR NO. 2310

0052 CAREER OF WHAT, 10 TO 15 YEARS, INCLUDING YOUR TRAINING?
1 A. 14 -- 14 YEARS OUT OF TRAINING.
2 Q. OKAY. AND THEN, HOW MUCH WITH TRAINING?
3 A. WELL, THREE YEARS OF CARDIOTHORACIC TRAINING, A
4 YEAR OF RESEARCH, FOUR YEARS OF GENERAL SURGERY, AND A YEAR
5 OF INTERNSHIP, ALL PART OF MY TRAINING IN MEDICINE.
6 Q. AND IN ALL OF THAT TIME PERIOD, IS IT TRUE,
7 DOCTOR, THAT YOU HAVE SEEN A TOTAL OF 100 PRIMARY THYMIC
8 TUMORS?
9 A. I THINK IT'S IN THAT RANGE, YES. THAT'S AN
ESTIMATE.
10 Q. AND I BELIEVE WHEN YOU ESTIMATED THIS FOR ME IN
11 YOUR DEPOSITION, YOU ESTIMATED THAT OF THOSE 100 THAT YOU'VE
12 SEEN OVER THE LAST 20 YEARS, 25 OF THOSE WERE MALIGNANCIES?
13 A. YES. I JUST WANT TO CLARIFY THAT, IN CLINICAL
14 PRACTICE, YOU KNOW, WE'RE REALLY TALKING ABOUT 14 YEARS. IF
15 THINGS WERE HAPPENING IN MEDICAL SCHOOL, MY -- THAT 100
16 CASES IS OVER THE 14 YEARS THAT I'VE BEEN IN PRACTICE.
17 Q. DO YOU RECALL TELLING ME THAT THAT WOULD COVER
18 THE TIME PERIOD OF YOUR CAREER AND INCLUDE YOUR TRAINING IN
19 THORACIC SURGERY?
20 A. I DON'T REMEMBER THAT POINT. BUT IF IN MY
21 TRAINING I'M STUDYING SOMETHING ELSE, I'M NOT GOING TO BE
22 AWARE OF THYMOMAS COMING ALONG.
23 Q. SO IT'S FAIR TO SAY THEN, IN AN APPROXIMATELY
24 15-YEAR-TIME PERIOD, YOU SAW 100 PRIMARY THYMIC TUMORS, OF
25 WHICH ONLY ONE-QUARTER OF THEM WERE MALIGNANT?
26 A. THAT'S RIGHT.
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0053 Q. OKAY. SO THE OTHER THREE-QUARTERS -- THAT'S
1 ABOUT THE LENGTH OF MY MATH SKILLS -- THE OTHER
2 THREE-QUARTERS OF THOSE WERE BENIGN; THEY WERE NOT
3 MALIGNANT? THEY WERE NOT CANCER?
4 A. THAT'S AN ESTIMATE, YES.
5 Q. SO OF THE 25 PRIMARY THYMIC CANCERS THAT YOU'VE
6 SEEN OVER A 15-YEAR-TIME PERIOD, IS IT FAIR TO SAY, DR.
7 WARREN, THAT NOT ONE SINGLE ONE OF THE CANCEROUS TUMORS THAT
8 YOU FOUND TO BE PRIMARY TO THE THYMUS WERE OF THE SMALL CELL
9 TYPE?
10 A. WELL, THAT IS WHAT I SAID AT MY DEPOSITION.
11 BUT THAT GOT ME TO REVIEW MY FILES. AND IN FACT,
12 THERE ARE TWO INTERESTING CASES THAT PROBABLY WERE SMALL
13 CELL CARCINOMA, ALTHOUGH AT THE TIME THEY WERE NOT -- THEY

15 WERE NOT PURE SMALL CELL CARCINOMAS, AND THEY WERE NOT
16 CLEARLY SMALL CELL CARCINOMA OF THE THYMUS.

17 Q. NOW, DR. WARREN, YOU KNEW FROM HAVING BEEN
18 INVOLVED IN LEGAL PROCEEDINGS BEFORE THAT YOU'RE SUPPOSED TO
19 PREPARE AND HAVE ALL YOUR OPINIONS AND THE THINGS THAT YOU
20 BASE THEM ON CONCLUDED AT THE TIME OF YOUR DEPOSITION?

21 A. I WASN'T AWARE OF THAT. BUT INASMUCH AS YOU
22 ASKED A QUESTION THAT WAS OF INTEREST, I PAID ATTENTION TO
23 MY RECORDS IN THE INTERVAL.

24 I MIGHT REMIND YOU THAT, AT THE TIME OF MY
25 DEPOSITION, I WAS STILL LOOKING FOR A REFERENCE, AND THAT
26 REFERENCE TURNS OUT TO BE A PAPER PUBLISHED BY DR. GOULD.

27 AND IN THAT REFERENCE, IT SO HAPPENS THAT THERE
28 WAS A MALIGNANT CARCINOID/SMALL CELL CARCINOMA OF THE THYMUS
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0054
1 THAT I, IN FACT, HAD PHOTOGRAPHED FOR HIM FOR THAT
2 PUBLICATION.

3 SO CLEARLY, THAT COUNTS AS A CASE. BUT AT THE
4 TIME OF MY DEPOSITION, I WASN'T FOCUSED ON THAT.

5 Q. AND YOU HAD AN OPPORTUNITY SINCE YOUR DEPOSITION
6 TO MAKE A CORRECTION TO YOUR DEPOSITION AND TO CORRECT THE
7 RECORD?

8 A. I BELIEVE THE LAWYERS AT SHOOK, HARDY & BACON
9 WERE AWARE OF THAT, AND DID THE APPROPRIATE THINGS, YES.

10 Q. YOU ASSUME THEY DID THE APPROPRIATE THINGS?

11 A. I DID NOT CONTACT ANYBODY, BUT I CERTAINLY MADE
12 THE LAWYERS AT SHOOK, HARDY & BACON AWARE THAT I HAD, UPON
13 REVIEW, BECOME AWARE OF TWO ADDITIONAL CASES, TWO CASES.

14 Q. DID YOU WRITE ANY CHANGES OR CORRECTIONS TO YOUR
15 DEPOSITION TESTIMONY?

16 A. NO. I MADE THEM AWARE, BUT I DID NOT MAKE ANY
17 WRITTEN CHANGES.

18 Q. AND IN YOUR DEPOSITION TESTIMONY, YOU WERE VERY
19 CLEAR AT THAT TIME, DOCTOR, THAT THERE WERE NONE OF THE
20 SMALL CELL VARIETY THAT YOU HAD SEEN?

21 A. MY TESTIMONY AT DEPOSITION SAID THAT. HOWEVER,
22 AS YOU'RE AWARE FROM THE REFERENCES THAT I PROVIDED YOU,
23 SOME OF THE CASES OF SMALL CELL CARCINOMA IN THE LITERATURE
24 WERE THE ADMIXED WITH MALIGNANT CARCINOID. SO THEY'RE NOT
25 PURE SMALL CELL CARCINOMA.

26 ON A SMALL BIOPSY, CERTAINLY THEY WOULD LOOK LIKE
27 A SMALL CELL CARCINOMA.

28 THE CASE I'M REFERRING TO, PUBLISHED BY DR. GOULD
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0055
1 IN 1981, WAS RESECTED AS "MALIGNANT CARCINOID," AND SMALL
2 CELL WAS FOUND WITHIN IT. I HAD NOT ORIGINALLY COUNTED THAT
3 TO BE A SMALL CELL CARCINOMA.

4 WHEN I DISCOVERED THAT HE HAD PUBLISHED IT AS A
5 SMALL CELL CARCINOMA ADMIXED WITH A CARCINOID, I THOUGHT
6 THAT I WOULD HAVE TO CORRECT THAT STATEMENT IN THE
7 DEPOSITION.

8 Q. AND YOU MADE A CHANGE, AND YOU SENT IT IN TO THE
9 DEPOSITION REPORTER SO THAT THAT WOULD BE PUT INTO THE
10 PERMANENT RECORD, AND SO THAT I WOULD HAVE THAT INFORMATION,
11 SIR?

12 A. MY UNDERSTANDING, I HAD CONTACTED THE PEOPLE AT
13 SHOOK, HARDY & BACON, AND I THOUGHT THAT THEY HAD MADE AN
14 AMENDMENT TO THE DEPOSITION TO THAT EFFECT.

15 IT'S NOT THAT THERE IS A MISTAKE IN THE
16 DEPOSITION. IT'S THAT, SINCE THE DEPOSITION, I HAD
17 DISCOVERED TWO CASES THAT WERE OF INTEREST.

18 Q. AND IS IT FAIR TO SAY, THOUGH, THAT IN YOUR
19 DEPOSITION, WHEN YOU WERE ASKED HOW MANY OF THE 25 MALIGNANT
20 PRIMARY CARCINOMAS THAT YOU HAVE DIAGNOSED WERE SMALL CELL,
21 -- YOU GAVE AN UNEQUIVOCAL NONE --

22 A. WITH THE --

23 Q. -- AS YOUR ANSWER; IS THAT CORRECT?

24 A. THAT'S CORRECT. BUT I HAD NOT DIAGNOSED EITHER
25 OF THESE CASES. SO IN FACT, THE RECORD STANDS CORRECTED. I
26 DID NOT MAKE THOSE DIAGNOSES.

27 Q. AND IN FACT, YOU TESTIFIED IN YOUR DEPOSITION,
28 DID YOU NOT, SIR, THAT THIS CASE, MS. HENLEY'S CASE, WOULD
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0056

1 BE THE FIRST SMALL CELL THYMIC PRIMARY THAT YOU HAD SEEN IN
2 YOUR CAREER; DO YOU RECALL TESTIFYING TO THAT?

3 A. YES, I DO.

4 Q. AND YOU DID SAY THAT?

5 A. YES, MA'AM.

6 Q. NOW, YOU'VE SEEN APPROXIMATELY, OR DIAGNOSED
7 APPROXIMATELY 1,000 CASES OF LUNG CANCER DURING THIS SAME
8 TIME PERIOD?

9 A. APPROXIMATELY.

10 Q. AND OF THOSE THOUSAND CASES OF LUNG CANCER,
11 APPROXIMATELY 20 PERCENT OR 200 WERE OF THE SMALL CELL
12 VARIETY?

13 A. THAT IS HOW MANY SMALL CELL CARCINOMAS WOULD BE
14 FOUND IN A GENERAL POPULATION OF 1,000. SO THAT'S A GUESS,
15 YES.

16 Q. WAS THAT A GUESS YOU WERE GIVING, DOCTOR?

17 A. I DID NOT REVIEW MY RECORDS AND COUNT UP THE
18 NUMBER OF DIAGNOSES OF SMALL CELL THAT I HAD MADE.

19 Q. AND, DOCTOR, HOW MANY OF THOSE 200 PEOPLE WITH
20 SMALL CELL LUNG CANCER SMOKED?

21 A. I DON'T RECALL.

22 Q. DO YOU RECALL TESTIFYING IN YOUR DEPOSITION, WHEN
23 I ASKED YOU THE SAME QUESTION, THE QUESTION BEING: "AND HOW
24 MANY OF THOSE 200 PEOPLE WITH SMALL CELL LUNG CANCER
25 SMOKED," YOUR ANSWER WAS, "ALL OF THEM"? DO YOU RECALL
THAT, DOCTOR?

27 A. I DON'T RECALL IT. I CAN BELIEVE THAT IT'S TRUE,
28 EXCEPT THAT I HAD ONE PATIENT -- I THINK IF YOU READ ON, YOU
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0057

1 WILL FIND THAT IT DEPENDS WHAT WE DEFINE AS A SMOKER, A
2 NONSMOKER AND AN EX-SMOKER.

3 AND I WENT ON TO DEFINE THAT AN EX-SMOKER WAS
4 SOMEBODY WHO HAD QUIT SMOKING FOR 15 YEARS, AND THAT THE
5 VAST MAJORITY OF PEOPLE WHO HAD SMALL CELL CARCINOMA ARE
6 SMOKERS, WERE SMOKERS, BUT THAT I HAD FOUND ONE PATIENT WHO
7 HAPPENED TO HAVE QUIT SMOKING MORE THAN 15 YEARS BEFORE
8 THEIR SMALL CELL CARCINOMA WAS DIAGNOSED. SO THERE WAS ONE
9 PATIENT THAT I'M AWARE OF.

10 Q. AND, DOCTOR, IS IT TRUE THEN THAT ALL BUT ONE OF
11 THE PEOPLE OF THE 200 PEOPLE YOU'VE DIAGNOSED WITH SMALL
12 CELL LUNG CANCER WERE SMOKERS?

13 A. YES.

14 Q. AND THE ONE WHO WAS DIAGNOSED HAD BEEN A FORMER
15 SMOKER; CORRECT?

16 A. THAT'S CORRECT.

17 Q. NOW, DOCTOR, IN A WOMAN WHO PRESENTS WITH A LEFT
18 HILAR MASS AND A 75 TO 122-PACK-YEAR SMOKING HISTORY, WOULD
19 YOU AGREE THAT THE MOST LIKELY DIAGNOSIS OF THAT PERSON IS
20 GOING TO BE LUNG CANCER?

21 A. YES.
22 Q. AND YOU WOULD AGREE, WOULD YOU NOT, THAT LUNG
23 TUMORS GROW IN TWO WAYS?
24 A. AT LEAST TWO WAYS.
25 Q. ONE OF THE WAYS IS THAT THEY GROW BY ESTABLISHING
26 METASTATIC DISEASE?
27 A. YES.
28 Q. AND THAT'S WHAT YOU WERE TALKING ABOUT, ABOUT
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0058 1 METASTASIZING INTO THE LYMPH NODES; CORRECT?
2 A. CORRECT.
3 Q. AND IT'S TRUE, DOCTOR, ISN'T IT, THAT LUNG
4 CANCERS ALSO GROW BY DIRECT SPREAD?
5 A. YES.
6 Q. AND I THINK THAT YOU INDICATED THAT THE MASS WAS
7 NEXT TO THE BRONCHIAL TUBE?
8 A. IT'S A GREATER THAN SIX-CENTIMETER MASS, AND AT
9 ONE PLACE IT IS TOUCHING AGAINST THE BRONCHUS, YES.
10 Q. AND IN FACT, IT'S SURROUNDING THE BRONCHUS, ISN'T
11 IT?
12 A. I DON'T BELIEVE SO. IT'S SURROUNDING THE ARTERY,
13 BUT NOT THE BRONCHUS.
14 Q. DID YOU SEE REFERENCE IN THE MEDICAL RECORDS TO
15 IT SURROUNDING THE BRONCHUS?
16 A. I DON'T RECALL.
17 Q. CAN YOU SEE IT, DOCTOR, WHERE THERE'S TUMOR ON
18 EITHER SIDE OF THE BRONCHUS SURROUNDING IT ON THE CAT SCANS?
19 A. I THINK THAT IT IS AGAINST THE BRONCHUS, BUT I
20 DON'T THINK IT SURROUNDS THE BRONCHUS.
21 Q. AND, DOCTOR, YOU WOULD AGREE THAT THERE CAN BE A
22 SUBMUCOSAL LESION IN THE BRONCHUS?
23 A. YES.
24 Q. AND "SUBMUCOSAL" MEANS WHAT, DOCTOR?
25 A. UNDER THE MUCOSA, UNDER THE LINING.
26 Q. AND THIS IS UNDER THE LINING, BUT WOULD NOT
27 APPEAR IF YOU WERE LOOKING FROM THE INSIDE OF THE BRONCHIAL
28 TUBE?

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0059 1 A. WELL, IF THERE IS SUBMUCOSAL SPREAD OF TUMOR, YOU
2 CAN SEE IT. BUT THE MUCOSA IS THICK. IT'S LINED UP
3 WITH -- THE FACT THAT THE LINING IS ITSELF INTACT IS WHAT'S
4 IMPLIED HERE.
5 BUT THAT THE TUMOR IS BETWEEN THE RINGS OF
6 CARTILAGE STARTING IN THE WINDPIPE AND THE LINING.
7 SO YES, YOU CAN SEE A SUBMUCOSAL TUMOR.
8 Q. DOCTOR, IT CAN PRESENT AS INFLAMMATION, CAN'T IT?
9 A. TYPICALLY, YOU MAKE A DISTINCTION BETWEEN
10 SUBMUCOSAL TUMOR AND INFLAMMATION.
11 Q. NOW, DOCTOR, I THINK YOU INDICATED THAT THERE ARE
12 SOME SYMPTOMS THAT YOU'D EXPECT IN SOMEBODY WHO PRESENTED
13 WITH A LUNG CANCER?
14 A. YES.
15 Q. AND WERE YOU GIVING THESE SYMPTOMS SPECIFICALLY
16 ABOUT A SMALL CELL CANCER?
17 A. NO, MA'AM.
18 Q. YOU WERE GIVING THESE SYMPTOMS WHEN IT RELATED TO
19 THE NERVE AND IMPINGING ON THE NERVE, THE VOCAL CORD NERVE?
20 DO YOU KNOW WHAT I'M TALKING ABOUT WHEN I'M
21 SAYING THAT?
22 A. I SAID THAT ONE OF THE WAYS THAT THE CANCER CAN
23 PRESENT IS BY INVOLVING THE NODE RIGHT ON THAT NERVE, THAT

24 IT CAN CAUSE A PATIENT TO BE HOARSE, AND THAT THAT CAN BE
25 PRESENTING SYMPTOMS.

26 BUT THAT'S NOT SPECIFIC TO A SMALL CELL CARCINOMA
27 OF THE LUNG.

28 Q. AND IT'S ALSO NOT SOMETHING THAT OCCURS IN EVERY
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0060 1 PERSON WHO PRESENTS WITH A SMALL CELL CARCINOMA OF THE LUNG?

2 A. NOT EVERY PATIENT, NO.

3 Q. AND IN FACT, MS. HENLEY DID EXPLAIN THAT SHE
4 COULDN'T SING, SHE COULDN'T PROJECT HER VOICE.

5 DO YOU RECALL THAT?

6 A. I RECALL THAT THERE WERE -- THERE WAS A COMMENT
7 IN THE RECORD THAT HER VOICE WAS NORMAL. I REMEMBER THAT
8 SPECIFICALLY WRITTEN OUT, THAT HER VOICE WAS NORMAL.

9 I REMEMBER THAT ONE OF THE REASONS THAT SHE WAS
10 CONCERNED ABOUT SMOKING WAS THAT SHE MIGHT DEVELOP A LOW
11 VOICE, BUT I DON'T REMEMBER ANYTHING IN THE RECORD ABOUT HER
12 HAVING HOARSENESS.

13 Q. YOU DON'T REMEMBER ANYTHING IN THE RECORD ABOUT
14 HER SAYING THAT SHE COULDN'T SING AS MANY SONGS; SHE
15 COULDN'T SING AS WELL?

16 A. I DON'T RECALL THAT, BUT THAT'S NOT WHAT I'M
17 TALKING ABOUT WITH HOARSENESS. THE ABILITY TO SING IS
18 SOMETHING ELSE.

19 Q. AND, DOCTOR, MR. OHLEMAYER KEPT ASKING YOU ABOUT
20 A TYPICAL CANCER OF THE LUNG.

21 A. CANCERS PRESENT DIFFERENTLY IN INDIVIDUALS, DON'T
22 THEY?

23 A. YES.

24 Q. AND SOMETIMES, THERE'S SOMETHING THAT'S A
25 COMPLETELY CLASSIC PRESENTATION?

26 A. YES.

27 Q. AND SOMETIMES, THERE ARE THINGS THAT ARE LESS
28 CLASSIC PRESENTATIONS?

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0061

1 A. YES.

2 Q. AND DOCTOR, IT'S TRUE, IS IT NOT, THAT EVEN THE
3 LEAST TYPICAL SMALL CELL LUNG CANCER, THE LEAST TYPICAL
4 PRESENTATION OF A SMALL CELL LUNG CANCER IS MORE COMMON THAN
5 A THYMIC CANCER?

6 A. I THINK THAT'S SORT OF A GENERAL STATEMENT. I'M
7 NOT SURE I CAN SAY YES OR NO TO THE WAY YOU PHRASED IT.

8 Q. WELL, DOCTOR, YOU INDICATED IN YOUR DEPOSITION,
9 DID YOU NOT, THAT THERE ARE CANCERS THAT PRESENT AND THAT
10 DON'T PRESENT IN THE CLASSIC PATTERN, WRITTEN UP IN
11 TEXTBOOKS AND WITH WHAT YOU'VE DESCRIBED?

12 A. OF COURSE.

13 Q. AND YOU INDICATED THAT SOMEWHERE BETWEEN 5 AND 10
14 PERCENT OF LUNG CANCERS MIGHT PRESENT ATYPICALLY?

15 A. GENERALLY SPEAKING, YES.

16 Q. NOW, YOU WOULD AGREE, WOULD YOU NOT, THAT THYMIC
17 CANCER IS A VERY UNUSUAL CANCER?

18 A. IT'S CERTAINLY MUCH LESS COMMON THAN LUNG CANCER,
19 GENERALLY SPEAKING, YES.

20 Q. DOCTOR, IN TERMS OF A SITE FOR A SMALL CELL
21 CANCER, WOULD YOU AGREE THAT THE THYMUS IS AT THE VERY
22 BOTTOM OF THE LIST OF COMMON SITES FOR THE PRESENTATION OF A
23 PRIMARY SMALL CELL CANCER?

24 A. I WOULDN'T SAY THAT, NO.

25 Q. DOCTOR, HAVE YOU EVER LOOKED AT THE SEER DATA?

26 A. NO.

27 Q. DO YOU KNOW THAT OR DO YOU HAVE INFORMATION THAT
28 THE AMERICAN CANCER SOCIETY KEEPS RECORDS OF THE LOCATIONS
JUDITH ANN OSSA, CSR NO. 2310

0062
1 OF CANCER THAT PRESENT AS INCIDENCES OF CANCER IN A GIVEN
2 YEAR?

3 A. YES.

4 Q. AND THEY KEEP RECORDS OF THE INFORMATION OF THE
5 PEOPLE WHO DIE OF CANCER AND WHAT THE SITE OF ORIGIN IS?

6 A. YES.

7 Q. AND DO YOU KNOW, DOCTOR, THAT THERE ARE 46
8 DIFFERENT SITES LISTED ON THE SEER DATA?

9 A. I'M NOT AWARE OF THAT.

10 Q. DO YOU KNOW, DOCTOR, WHERE LUNG CANCER IS IN
11 TERMS OF SITES OF CANCER PRESENTATION?

12 A. I WOULD EXPECT IT TO BE ON THE TOP OF THE LIST.

13 Q. AND DO YOU KNOW, DOCTOR, WHERE THYMIC CANCER IS?

14 A. I WOULD EXPECT IT TO BE NOT ON -- IN THE TOP
15 HALF.

16 Q. WOULD IT SURPRISE YOU, DOCTOR, IF IT WAS IN THE
17 VERY BOTTOM OF THE LIST?

18 A. I THINK IT WOULD BE MISLEADING.

19 Q. DOCTOR, IN TERMS OF THE SITES OF CANCER, WOULD
20 YOU AGREE THAT LESS THAN 1 PERCENT OF CANCERS PRESENT IN THE
21 THYMUS?

22 A. THAT'S PROBABLY TRUE, GENERALLY SPEAKING.

23 Q. WOULD YOU AGREE THAT LESS THAN .1 PERCENT OF
24 CANCERS PRESENT IN THE THYMUS?

25 A. I'M NOT FAMILIAR WITH THE STATISTICS TO BE ABLE
26 TO SAY WHETHER IT'S .1 OR 1 PERCENT. IT'S AN UNCOMMON SITE
27 FOR A CANCER.

28 Q. AND, DOCTOR, I THOUGHT I HEARD ON DIRECT
JUDITH ANN OSSA, CSR NO. 2310

0063
1 EXAMINATION THAT YOU SAID THAT THE HILUM WAS THE ROOT OF THE
2 LUNG?

3 A. I DON'T BELIEVE I SAID THAT, BUT IT IS TRUE.

4 Q. AND, DOCTOR, IS IT TRUE THAT THE BRONCHUS, THE
5 AIR TUBES, ARE A PART OF THE LUNG?

6 A. NO, THE BRONCHUS IS NOT PART OF THE LUNG.

7 Q. THE BRONCHUS IS NOT PART OF THE LUNG?

8 A. TYPICALLY SPEAKING, THE BRONCHUS, THE MAIN STEM
9 BRONCHUS, THE AIRWAY, IS NOT PART OF THE LUNG, NO.

10 Q. SO IN OTHER WORDS, WHEN A CANCER OCCURS IN THE
11 AIRWAY, IT'S NOT A LUNG CANCER?

12 A. WELL, YOU SAY "BRONCHUS." I'M TAKING YOUR
13 QUESTIONS VERY LITERALLY HERE.

14 Q. WELL, DO CANCERS OCCUR IN THE BRONCHUS?

15 A. YES, MA'AM, THEY DO.

16 Q. DO CANCERS OCCUR IN THE AIRWAYS?

17 A. CANCERS OCCUR IN THE TRACHEA AND IN THE
18 WINDPIPE. THEY'RE NOT LUNG CANCERS NECESSARILY.

19 Q. ARE CANCERS THAT OCCUR IN THE MAIN STEM BRONCHUS
20 CONSIDERED LUNG CANCERS, DOCTOR?

21 A. IF THEY ARE LIMITED TO THE MAIN STEM BRONCHUS,
22 THEY ARE NOT CONSIDERED TO BE LUNG CANCER.

23 Q. DOCTOR, YOU'RE FAMILIAR WITH ARTICLES, AND I
24 THINK ONE YOU MAY HAVE PRODUCED ON "THYMIC CARCINOMA:
25 SPECTRUM OF DIFFERENTIATION AND HISTOLOGIC TYPES" BY SUSTER
26 AND MORAN?

27 A. YES, MA'AM.

28 Q. DOCTOR, WHEN THEY SPEAK OF DIFFERENTIAL DIAGNOSES
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0064

1 THERE, THEY WERE TALKING ABOUT THE DIFFERENT CELL TYPES?

2 A. THERE WERE REFERENCES IN THERE TO CLINICAL

3 PRESENTATION OF THE VARIOUS CELL TYPES, YES.

4 Q. AND THEY WERE TALKING SOMEWHAT ABOUT THE
5 DIFFERENTIAL DIAGNOSIS, WHERE YOU MAKE STATEMENTS ABOUT WHAT
6 ARE PROBABLE THINGS THAT YOU'RE LOOKING AT THAT, WHAT YOU'RE
7 GOING TO CONSIDER IN DETERMINING WHAT A PATIENT'S DIAGNOSIS
8 IS; CORRECT?

9 A. YES.

10 Q. AND IN TERMS OF THE DIFFERENTIAL DIAGNOSIS IN MS.
11 HENLEY'S CASE, DID YOU SEE ANYWHERE IN HER TREATING RECORDS
12 WHERE A SINGLE ONE OF HER DOCTORS INCLUDED A THYMIC CANCER
13 AS PART OF THE DIFFERENTIAL?

14 A. NO.

15 Q. AND, DOCTOR, IT'S TRUE, IS IT NOT, THAT A
16 DIAGNOSIS OF THYMIC CANCER MUST BE BASED ON THE EXCLUSION OF
17 A PRIMARY TUMOR ELSEWHERE?

18 A. I BELIEVE, IF YOU ARE QUOTING THE ARTICLE, YOU'RE
19 TALKING ABOUT SMALL CELL CARCINOMA OF THE THYMUS; IS THAT
20 CORRECT?

21 Q. OKAY. I'LL LIMIT IT TO THAT. LET ME REPHRASE MY
22 QUESTION THEN.

23 IS IT TRUE, DOCTOR, THAT THE RENDERING OF A
24 DIAGNOSIS OF PRIMARY SMALL CELL CARCINOMA OF THE THYMUS MUST
25 BE BASED ON THE EXCLUSION OF A PRIMARY TUMOR ELSEWHERE?

26 A. THAT'S ACCURATE. AND THAT'S WHY I QUESTIONED HOW
27 THE CANCER SOCIETY CAN BE SURE THAT SOME OF THE SMALL CELL
28 CARCINOMAS OF THE MEDIASTINUM DIDN'T ARISE IN THE THYMUS,

JUDITH ANN OSSA, CSR NO. 2310

0065

1 SINCE OFTEN THE TUMOR IS WIDESPREAD AND YOU CAN'T -- YOU
2 SIMPLY CAN'T TELL.

3 AND BASED ON THAT RATHER HIGH STANDARD, IT MAY
4 WELL BE THAT SOME OF THE THYMIC SMALL CELL CARCINOMAS HAVE
5 SPREAD THROUGHOUT THE MEDIASTINUM AND WERE ASSUMED TO BE
6 LUNG AND, IN FACT, WERE THYMIC IN ORIGIN.

7 AND THAT IS WHY IT MAY WELL BE A MORE COMMON
8 DIAGNOSIS THAN HAS BEEN REFLECTED IN THE STATISTICS.

9 Q. I THINK, IN YOUR DEPOSITION, YOU SAID YOU THOUGHT
10 THERE WERE ABOUT 200,000 LUNG CANCERS A YEAR?

11 A. YES.

12 Q. AND I THINK THAT YOU INDICATED THAT APPROXIMATELY
13 20 PERCENT OF THOSE 200,000 WOULD BE OF THE SMALL CELL
14 VARIETY?

15 A. THAT'S CORRECT.

16 Q. AND, DOCTOR, I WANT YOU TO ASSUME THAT -- I DON'T
17 KNOW -- WHAT DO YOU THINK IS A REASONABLE NUMBER?

18 LET ME ASK YOU: WHAT IS A REASONABLE NUMBER OF
19 MISDIAGNOSES, DOCTOR, OF ALL OF THOSE 200,000 LUNG CANCERS,
20 WHERE THE DIAGNOSIS SHOULD HAVE BEEN THYMIC CANCER?

21 A. I HAVE ABSOLUTELY NO IDEA.

22 Q. DOCTOR, I WANT YOU TO ASSUME THAT THE REPORTED
23 INCIDENCE OF THYMIC CANCERS -- STRIKE THAT -- THE REPORTED
24 INCIDENCE OF OTHER NEUROENDOCRINE CANCERS, OF WHICH THYMIC
25 CANCER WOULD BE INCLUDED, IS LESS THAN 800 IN A YEAR.

26 CAN YOU MAKE THAT ASSUMPTION?

27 A. I'LL MAKE THAT ASSUMPTION.

28 Q. HOW MANY DIAGNOSES OF THOSE 800 NEUROENDOCRINE

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0066

1 CANCERS -- FIRST OF ALL, CAN YOU EVEN ESTIMATE HOW MANY OF
2 THOSE 800 WOULD BE A THYMIC CANCER?

3 A. I'M SORRY. I'M NOT FOLLOWING YOUR QUESTION.
4 THYMIC CANCERS CAN BE OF MANY VARIETIES. SOME
5 ARE SMALL CELL. MANY ARE NOT. SO --

6 Q. I'M NOT EVEN TALKING ABOUT SMALL CELL, DOCTOR.

7 I WANT YOU TO ASSUME THE INCIDENCE ON A YEARLY
8 BASIS OF OTHER NEUROENDOCRINE CANCERS, ELIMINATING -- NOT
9 INCLUDING THE LUNG, NOT INCLUDING OTHER SITES, ONLY CANCERS
10 THAT WOULD BE IN THE AREA WHERE THE THYMUS AND OTHER
11 NEUROENDOCRINE SYSTEMS ARE.

12 A. I'M SORRY. NEUROENDOCRINE IS THE
13 DIFFERENTIAL -- IS THE PATTERN OF DIFFERENTIATION FOUND IN
14 SMALL CELL CARCINOMA.

15 SO I SIMPLY DON'T UNDERSTAND YOUR QUESTION.
16 SMALL CELL CARCINOMAS ARE ALMOST BY DEFINITION
17 NEUROENDOCRINE.

18 Q. I MISSPOKE, DOCTOR. OTHER ENDOCRINE SITES.

19 A. ENDOCRINE?

20 Q. ENDOCRINE.

21 A. OKAY.

22 Q. WOULD THE THYMUS BE IN THERE?

23 A. CHARACTERISTICALLY, THE THYMUS IS NOT CONSIDERED
24 TO BE AN ENDOCRINE ORGAN. YOU WILL HAVE TO GO ON --

25 Q. LET ME FIND THE EXACT DOCUMENT, DOCTOR, BECAUSE I
26 WANT TO SEE THEN WHAT CATEGORY YOU WOULD PUT IT IN.

27 SOMEHOW, IT'S NOT IN THERE. I DON'T SEE IT.

28 SO AS TO NOT WASTE YOUR TIME, DOCTOR, AND THE
 JUDITH ANN OSSA, CSR NO. 2310

0067

1 JURY'S TIME, I WANT YOU TO ASSUME A TOTAL OF 800 OTHER -- I
2 WANT YOU TO ASSUME THE FOLLOWING: THAT THE SEER DATA IS
3 LISTED BY SITE OF ORIGIN OF CANCER.

4 A. OKAY.

5 Q. AND I WANT YOU TO ASSUME FURTHER THAT IT IS NOT
6 BROKEN DOWN INTO CELL TYPE.

7 CAN YOU ASSUME THAT?

8 A. I'LL ASSUME ANYTHING YOU WANT.

9 Q. ASSUME FURTHER THAT THE NO. 1 SITE FOR CANCER IS
10 THE LUNG.

11 A. YES.

12 Q. AND I WANT YOU TO ASSUME FURTHER THAT THE NUMBER
13 46 ON A LIST OF 46 SITES OF OTHER SITES NOT PREVIOUSLY
14 IDENTIFIED INCLUDES THYMIC CANCER.

15 A. ALL RIGHT.

16 Q. AND I WANT YOU TO ASSUME, OF THESE OTHER SITES,
17 THERE'S A TOTAL OF 800 CASES IN A YEAR.

18 A. ALL RIGHT.

19 Q. DO YOU HAVE ANY WAY TO ESTIMATE HOW MANY THYMIC
20 CANCERS THERE ARE IN A YEAR?

21 A. WE'RE GOING BACK TO THYMIC CANCER AND NOT
22 NEUROENDOCRINE?

23 Q. THYMIC CANCER.

24 A. THYMIC CANCER.

25 HOW MANY THYMIC CANCERS?

26 Q. HOW MANY THYMIC CANCERS IN A YEAR IN THE UNITED
27 STATES?

28 A. THE TERMINOLOGY OF THYMIC TUMORS HAS UNDERGONE
 JUDITH ANN OSSA, CSR NO. 2310

0068

1 EVOLUTION. IN THE ARTICLE THAT YOU REFERRED TO, THERE IS
2 A -- IT HAS PRACTICALLY A PAGE OF THE CONTROVERSY OF THE
3 TERMINOLOGY REGARDING THYMIC TUMORS, MALIGNANT THYMOSES
TYPE

4 1, MALIGNANT THYMOSES TYPE 2.

5 IT LISTED SIX OR SEVEN DIFFERENT TYPES OF
6 MALIGNANT THYMIC CARCINOMAS AS SEPARATE FROM THE MALIGNANT
7 THYMOA WHICH, STRICTLY SPEAKING, IS A MALIGNANT THYMIC
8 TUMOR.

9 Q. HOW MANY OF ALL OF THOSE -- THROW THEM ALL IN --
10 HOW MANY IN A GIVEN YEAR, DOCTOR, IN THE UNITED STATES?

11 A. I DON'T KNOW. I SIMPLY DON'T KNOW.

12 Q. LESS THAN 1,000?

13 A. THERE MAY WELL BE.

14 Q. LESS THAN 500?

15 A. I DON'T KNOW, COUNSELOR. I WOULD EXPECT THAT IT
16 WOULD BE MORE THAN 500.

17 Q. DOCTOR, DO YOU KNOW HOW MANY SMALL CELL THYMIC
18 PRIMARY CANCERS HAVE BEEN REPORTED IN ALL THE WORLD'S
19 LITERATURE, IN ALL THE TIME THAT IT HAS BEEN BEING REPORTED?

20 A. I WOULD SAY PROBABLY IN THE ORDER OF 10 TO 15
21 CASES.

22 BUT I SAY, AGAIN, IT'S BEEN MASSIVELY
23 UNDERREPORTED BECAUSE OF THE EXTENSIVE INVOLVEMENT OF THE
24 MEDIASTINUM BY A LUNG PRIMARY, WHICH CLEARLY IS MORE COMMON,
25 AND SECONDLY INVOLVES THE MEDIASTINUM, AND OFTEN IN A
26 WIDESPREAD FASHION.

27 SO FOR IT TO BE PUBLISHED, IT HAS TO BE CLEAR, IT
28 HAS TO BE UNEQUIVOCAL. YOU NEED A LOT OF INFORMATION OR
JUDITH ANN OSSA, CSR NO. 2310

0069 IT'S SIMPLY GOING TO BE OVERLOOKED AS TO THE SITE OF ORIGIN.

1 Q. YOU SAID 10 OR 15; CORRECT?

2 A. THAT'S WHAT I SAID.

3 Q. AND YOU SAID "MASSIVELY UNDERREPORTED"?

4 A. IT MIGHT BE MASSIVELY UNDERREPORTED.

5 Q. TELL US HOW MANY MASSES HAVE BEEN UNDERREPORTED.
HOW MUCH SHOULD THAT NUMBER BE?

6 A. I DON'T -- I HONESTLY DON'T KNOW. YOU WILL HAVE
7 TO TURN BACK THE CLOCK AND KNOW WHERE THOSE TUMORS AROSE TO
8 BE CERTAIN.

9 Q. AND SO MS. HENLEY'S CASE THEN, IF IT'S ONE OF 10
10 OR 15 OR 20, I MEAN, THAT'S REPORTABLE, ISN'T IT, DOCTOR?

11 MR. OHLEMAYER: I OBJECT. IT'S ARGUMENTATIVE AS
12 FRAMED, YOUR HONOR.

13 THE COURT: THAT QUESTION IS. I'LL SUSTAIN.

14 MS. CHABER: Q. IF MS. HENLEY HAS A THYMIC
15 CANCER, DOCTOR, THAT'S SOMETHING THAT WOULD BE HIGHLY
16 SIGNIFICANT TO REPORT IN THE MEDICAL LITERATURE, WOULDN'T
17 IT?

18 A. NO, I DON'T THINK SO.

19 Q. WOULDN'T IT BE IMPORTANT, DOCTOR, TO REPORT ALL
20 OF THESE CASES OF THYMIC CANCER SO THAT THE AMERICAN CANCER
21 SOCIETY AND THE PEOPLE WHO KEEP STATISTICS ON INCIDENCES OF
22 CANCER AND WHERE THEY ARE, THEIR SITES ARE, CAN GET IT
23 RIGHT?

24 A. I THINK PROBABLY NOT, FOR AT LEAST TWO REASONS.

25 FIRST OF ALL, THE THERAPY IS EXACTLY THE SAME.
26 SO IT REALLY DOESN'T MATTER IN THE MANAGEMENT.

27 JUDITH ANN OSSA, CSR NO. 2310

0070 0070 AND SECONDLY, I CAN'T PROVE THAT THIS TUMOR
1 ARISES IN THE THYMUS GLAND. I CAN ONLY SAY THAT I HAPPEN TO
2 THINK IT'S THE MOST LIKELY SITE, BUT I CAN'T PROVE TO A
3 MEDICAL CERTAINTY THAT IT ARISES WITHIN THE THYMUS GLAND.

4 Q. SO IF I UNDERSTAND THAT CORRECTLY, YOU CANNOT SAY
5 WITH A REASONABLE DEGREE OF MEDICAL CERTAINTY THAT
6 MS. HENLEY HAS A THYMIC CANCER; IS THAT CORRECT?

8 A. I CAN'T SAY WITH MEDICAL CERTAINTY THAT THIS
9 SMALL CELL CARCINOMA IS IN THE THYMUS; THAT IS CORRECT.
10 Q. AND, DOCTOR, LET ME ASK YOU THE FOLLOWING
11 QUESTION: DO YOU BELIEVE THAT CIGARETTE SMOKING CAUSES LUNG
12 CANCER?

13 A. I BELIEVE CIGARETTE SMOKING IS A PRIMARY RISK
14 FACTOR FOR THE DEVELOPMENT OF LUNG CANCER.

15 Q. DOCTOR, DO YOU BELIEVE CIGARETTE SMOKING CAUSES
16 LUNG CANCER?

17 A. I'M NOT COMFORTABLE WITH THE TERM "CAUSE," WHICH
18 WE HAVE MANY FACTORS THAT HAVE BEEN IMPLICATED IN THE
19 DEVELOPMENT OF A CHRONIC CONDITION AND IN WHICH THERE IS A
20 BACKGROUND INCIDENCE WITHOUT ANY RISK FACTORS.

21 SO I BELIEVE MOST PEOPLE, MOST DOCTORS, NOW TALK
22 IN TERMS OF RISK FACTOR FOR HEART DISEASE, FOR DEVELOPMENT
23 OF CANCERS, AND I AGREE -- I ABSOLUTELY BELIEVE THAT
24 CIGARETTE SMOKING IS AN IMPORTANT RISK FACTOR IN THE
25 DEVELOPMENT OF LUNG CANCER.

26 Q. NOW, DOCTOR, YOU OPERATE ON PEOPLE AND YOU TELL
27 FAMILY AND PEOPLE AND PATIENTS THAT THEY HAVE LUNG CANCER;
28 CORRECT?

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0071

1 A. THAT'S RIGHT.

2 Q. AND, DOCTOR, I GUESS THEN IF THEY ASK YOU, "WELL,
3 DOCTOR, I SMOKED ALL MY LIFE. DID THAT CAUSE MY CANCER,"
4 YOU WOULDN'T BE ABLE TO TELL THEM THAT IT DID?

5 A. I'D SAY, "POSSIBLY SO. PROBABLY SO. BUT I CAN'T
6 SAY FOR CERTAIN."

7 Q. DO YOU BELIEVE THAT CIGARETTE SMOKING IS A
8 PROBABLE CAUSE OF LUNG CANCER?

9 A. IT'S A PRIMARY RISK FACTOR. IT'S HIGHLY
10 ASSOCIATED. IT'S AN IMPORTANT RISK FACTOR, AND PEOPLE
11 SHOULDN'T SMOKE.

12 Q. DOCTOR, DO YOU ACCEPT THE SURGEON GENERAL'S
13 DEFINITION OF THE WORD "CAUSE"?

14 A. I'M NOT AWARE OF THE SURGEON GENERAL GIVING A
15 DEFINITION OF THE WORD "CAUSE."

16 Q. HAVE YOU READ ANY OF THE SURGEON GENERAL'S
17 REPORTS ON THE HEALTH CONSEQUENCES OF SMOKING?

18 A. ACTUALLY, I HAVEN'T, NO.

19 Q. NONE OF THEM?

20 A. NO, MA'AM. ONLY WHAT'S BEEN REPORTED IN THE
21 PRESS.

22 Q. SO YOU HAVEN'T GONE TO ANY OF THE SOURCES, BE IT
23 THE 1964 REPORT, THE '68 REPORT, THE '79 REPORT, THE '88
24 REPORT, WHATEVER REPORT? YOU HAVEN'T GONE AND READ A SINGLE
25 ONE OF THEM?

26 A. MA'AM, I'M A SURGEON. I HAVEN'T READ THE SURGEON
27 GENERAL'S STATEMENTS, AND I'VE NEVER READ ANY, INCLUDING
28 WHAT YOU HAVE IN FRONT OF YOU. I'VE NEVER READ THE SURGEON

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0072

1 GENERAL'S REPORT.

2 Q. WELL, THE SURGEON GENERAL DEFINES CAUSE AS "A
3 SIGNIFICANT EFFECTUAL RELATIONSHIP BETWEEN AN AGENT AND AN
4 ASSOCIATED DISORDER OR DISEASE IN THE HOST."

5 GIVEN THAT DEFINITION, DOCTOR, DOES CIGARETTE
6 SMOKING CAUSE LUNG CANCER?

7 A. CAN YOU READ THAT AGAIN TO ME, PLEASE. I DIDN'T
8 QUITE UNDERSTAND IT.

9 Q. SURE. "A SIGNIFICANT EFFECTUAL RELATIONSHIP
10 BETWEEN AN AGENT AND AN ASSOCIATED DISORDER OR DISEASE IN

11 THE HOST."

12 A. I HONESTLY DON'T KNOW WHAT THAT MEANS. I THINK
13 THAT PEOPLE SHOULDN'T SMOKE. I THINK SMOKING IS A RISK
14 FACTOR FOR THE DEVELOPMENT OF LUNG CANCER.

15 I WOULD RESERVE, AS A SCIENTIST, THE TERM "CAUSE"
16 FOR SOMETHING ELSE, THAT THERE ARE MANY RISK FACTORS FOR THE
17 DEVELOPMENT OF CERTAIN DISEASES.

18 AND IN THE CASE OF LUNG CANCER, SMOKING IS
19 CERTAINLY AN IMPORTANT RISK FACTOR, BUT I'M NOT QUITE SURE
20 WHAT THAT DEFINITION MEANS. I'M SORRY, I DON'T. THAT'S NOT
21 WHAT I DO.

22 Q. YOU DON'T DETERMINE CAUSAL SIGNIFICANCE?

23 A. I DON'T THINK THAT'S MY JOB. PATIENTS COME TO ME
24 WITH A LUMP IN THEIR CHEST, AND I OPERATE ON THEIR LUNG
25 CANCER. I'M NOT IN THE BUSINESS OF TELLING THEM EXACTLY HOW
26 THEY GOT THEIR LUNG CANCER.

27 I KNOW THEY KNOW THEY SHOULDN'T SMOKE. I TELL
28 THEM NOT TO SMOKE. I THINK SMOKING IS SOMETHING TO BE

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0073

1 AVOIDED.

2 BUT I CAN'T TELL THEM THAT "YOUR CANCER WAS
3 CAUSED BY SMOKING."

4 Q. SO THE FOLLOWING STATEMENT BY THE SURGEON GENERAL
5 IS -- LET ME SEE IF YOU CAN AGREE WITH THIS: "CIGARETTE
6 SMOKING IS CAUSALLY RELATED TO LUNG CANCER"?

7 A. I HAPPEN TO DISAGREE WITH THAT.

8 MS. CHABER: I HAVE NOTHING FURTHER.

9 THE COURT: MR. OHLEMAYER.

10

11 REDIRECT EXAMINATION

12 BY MR. OHLEMAYER: Q. DR. WARREN, DO YOU KNOW
13 WHETHER THE SURGEON GENERAL THESE DAYS IS EVEN A SURGEON?

14 A. NO, I DON'T BELIEVE HE IS.

15 Q. OR SHE?

16 A. OR SHE.

17 Q. AS THE CASE MAY BE.

18 LET ME, BEFORE I ASK YOU A COUPLE OF QUESTIONS,
19 JUST FOR A HOUSEKEEPING MATTER, WHEN YOU DESCRIBED THE
20 IMAGES ON 2802, YOU NUMBERED THEM AS 6 PLUS C, 7 PLUS C.

21 WHAT DOES THE "PLUS C" MEAN?

22 A. THE CAT SCAN IS DONE INITIALLY WITHOUT ANY DYE OR
23 CONTRAST. AND THAT'S TO GET A BASELINE.

24 AND THEN IN THIS CASE, AN INTRAVENOUS WAS PUT IN
25 THE BACK OF THE RIGHT HAND WITH A SOLUTION, WHICH LOOKS
26 CLEAR TO YOU AND ME AND LOOKS WHITE UNDER X-RAY, AND THAT
27 LIGHTS UP THE BLOOD VESSELS.

28 SO 6 PLUS C IS IMAGE 6 WITH CONTRAST AS OPPOSED
JUDITH ANN OSSA, CSR NO. 2310

0074

1 TO 6 WITHOUT C.

2 Q. WAS THE CONTRAST APPLIED BACK WHEN THESE PICTURES
3 WERE ACTUALLY TAKEN?

4 A. OH, YES. AND IT LASTS A VERY SHORT PERIOD OF
5 TIME.

6 Q. MS. CHABER ASKED YOU SOME QUESTIONS ABOUT
7 INFLAMMATION AND SUBMUCOSAL MOUNDING.

8 DO YOU RECALL THOSE?

9 A. YES.

10 Q. MY QUESTION TO YOU IS: OF WHAT? INFLAMMATION OF
11 WHAT? SUBMUCOSAL MOUNDING OF WHAT?

12 A. WELL, THINK OF THE WINDPIPE AS A PIPE, AND
13 THERE'S A LINING IN THE PIPE, AND THE LINING OF THE PIPE IS

14 THE MUCOSA, AND THE BOUNDARIES OF THE PIPE, THE SUBSTANCE OF
15 THE PIPE ARE THE CARTILAGINOUS RINGS. AND IF THERE IS
16 INFLAMMATION OF THE LINING PORTION, IT WILL LOOK THICKENED,
17 IT WILL LOOK GLISTENING, BUT IT WON'T NECESSARILY BE RAISED
18 OFF THE SUPPORT OF THE PIPE.

19 BUT YOU CAN GET TUMOR THAT GROWS IN UNDER THE
20 LINING, LEAVING THE LINING ALONE. AND THAT IS
21 CHARACTERISTIC FOR SMALL CELL CARCINOMA.

22 Q. IS THAT SOMETHING THAT YOU CAN SEE ON THE
23 BRONCHOSCOPE WHEN YOU PERFORM THAT PROCEDURE?

24 A. ABSOLUTELY.

25 Q. AND IS THAT SOMETHING THAT YOU, AS A SURGEON AND
26 AS A TEACHER, WERE TRAINED TO AND DO TRAIN PEOPLE TO OBSERVE
27 AND RECORD?

28 A. ABSOLUTELY.

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0075

1 Q. IS THERE ANY EVIDENCE OF SUBMUCOSAL MOUNDING IN
2 THE BRONCHOSCOPY THAT WAS PERFORMED IN MS. HENLEY'S CASE?

3 A. NOT BY THE REPORT.

4 Q. DOCTOR, IN FORMING YOUR OPINION IN THIS CASE, YOU
5 CONSIDERED, AS I UNDERSTAND IT, MS. HENLEY'S SYMPTOMS; IS
6 THAT RIGHT?

7 A. THAT'S RIGHT.

8 Q. THE X-RAYS?

9 A. YES.

10 Q. THE CT SCANS?

11 A. CORRECT.

12 Q. THE REPORT OF THE BRONCHOSCOPY?

13 A. YES.

14 Q. THE RESULTS OF THE MEDIASTINOTOMY?

15 A. YES.

16 Q. INCLUDING THE PATHOLOGICAL BIOPSY?

17 A. CORRECT.

18 Q. AND THE ATTEMPTS TO DETERMINE WHETHER THERE WERE
19 OR WERE NOT METASTASES IN OTHER SITES?

20 A. THAT'S RIGHT.

21 Q. IS THAT INFORMATION STATISTICS OR IS THAT
22 INFORMATION ANATOMY?

23 A. THAT'S ANATOMY.

24 Q. IS IT ANATOMY THAT YOU AS A DOCTOR USE TO COMPARE
25 AND CONTRAST WHAT YOU KNOW ABOUT DISEASE OR WHAT YOU READ
ABOUT OTHER DISEASE?

27 A. EVERY DAY.

28 Q. IN ORDER TO DETERMINE WHERE A CANCER STARTED IN

JUDITH ANN OSSA, CSR NO. 2310

0076

1 SOMEBODY'S BODY, DO YOU AS A DOCTOR USE STATISTICS OR DO YOU
2 USE ANATOMY?

3 A. I USE ANATOMY.

4 Q. IS THAT WHAT YOU'RE TRAINED TO DO?

5 A. YES, SIR.

6 Q. WHAT RESPECT TO THESE X-RAYS, YOU RECALL WHEN
7 MS. CHABER HAD THE OPPORTUNITY TO TAKE YOUR DEPOSITION?

8 A. YES.

9 Q. YOU DID IN FACT PUT THE X-RAYS ON THE BOX, DIDN'T
10 YOU?

11 A. YES.

12 Q. AND DESCRIBED YOUR IMPRESSIONS FOR HER?

13 A. YES.

14 Q. WHILE THE COURT REPORTER TOOK IT ALL DOWN?

15 A. YES.

16 Q. YOU MENTIONED -- MS. CHABER MENTIONED A DOCTOR BY

17 THE NAME OF DR. GOULD.
18 IS HE A PATHOLOGIST?
19 A. YES, HE IS.
20 Q. DOES HE WORK AT THE HOSPITAL YOU WORK AT?
21 A. YES, HE DOES.
22 Q. IS HE SOMEBODY WHO HAS SPECIAL BACKGROUND,
23 EDUCATION OR TRAINING IN THE AREA OF CANCER?
24 A. OH, YES.
25 Q. DO YOU AND HE WORK TOGETHER AT THE HOSPITAL TO
26 TREAT PATIENTS AND TO DIAGNOSE THEIR DISEASE?
27 A. TO DIAGNOSE, BUT NOT TO TREAT. SOMEBODY ELSE
28 DOES THAT.

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0077

1 HE'S A PATHOLOGIST. HE TELLS ME WHAT IS SEEN IN
2 THE PATHOLOGY. BUT HE DOESN'T GIVE ME ANY INPUT IN THE
3 TREATMENT OTHER THAN WHATEVER INSIGHTS I CAN GATHER FROM
4 WHAT HE SAYS IT IS.

5 Q. SO DISCUSSING MEDICAL CASES OR MEDICAL EVIDENCE
6 WITH DR. GOULD IS SOMETHING THAT'S TYPICAL IN YOUR
7 DAY-TO-DAY PRACTICE?

8 A. OH, MANY TIMES A WEEK. BUT HE COULDN'T INTERPRET
9 AN X-RAY. THAT'S SIMPLY NOT HIS FIELD.

10 BUT SURGICAL PATHOLOGY IS VERY MUCH HIS FIELD, SO
11 HIS INTERPRETATION OF THE BIOPSY IS HIS STRENGTH. BUT MINE
12 IS THE CLINICAL PRESENTATION, THE X-RAYS AND THE MANAGEMENT
13 OF PATIENTS.

14 Q. HAVE YOU AND HE DONE RESEARCH AND PUBLISHED THE
15 RESULTS OF THAT RESEARCH TOGETHER?

16 A. OH, YES.

17 Q. HAVE YOU EVER PUBLISHED ANY RESEARCH WITH DR.
18 HAMMAR?

19 A. NO.

20 Q. DR. SAMUEL HAMMAR?

21 A. NO.

22 Q. DO YOU KNOW WHETHER ANY OF YOUR RESEARCH IS
23 PUBLISHED IN DR. HAMMAR'S TEXTBOOK?

24 A. OH, YES, HE'S REFERENCED OUR WORK.

25 Q. IN WHAT CHAPTER, DO YOU KNOW?

26 A. NOT OFFHAND.

27 Q. DO YOU KNOW WHETHER HE'S REFERENCED ANY OF YOUR
28 WORK ON THE ISSUE OF NEUROENDOCRINES OR CARCINOMA?

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0078

1 A. OH, YES.

2 Q. AND THAT'S A BOOK, AS I UNDERSTAND IT, THAT'S
3 USED IN MEDICAL SCHOOLS?

4 A. OH, YES.

5 Q. DOCTOR, I DON'T -- AND I KNOW IT'S LATE AND I
6 WANT TO MOVE THIS ALONG. I DON'T WANT BE FACETIOUS. I KNOW
7 THERE'S NOTHING FUNNY ABOUT ANY OF THIS. IS IT FAIR TO SAY
8 THAT YOU KNOW LUNG CANCER WHEN YOU SEE IT?

9 A. IN THE MAJORITY OF TIMES, YES.

10 Q. ARE YOU REASONABLY CERTAIN THAT THIS TUMOR, MS.
11 HENLEY'S TUMOR, DID NOT START IN HER LUNG?

12 A. IT WOULD BE --IT WOULD BE THE MOST UNUSUAL LUNG
13 CANCER THAT I HAVE SEEN IN A LONG, LONG, LONG TIME. IT JUST
14 DOESN'T LOOK LIKE A LUNG CANCER.

15 Q. NOW, WITH RESPECT TO LUNG CANCER THAT GROWS BY
16 DIRECT SPREAD, SMALL CELL, MS. CHABER ASKED YOU ABOUT THAT.
17 WHEN LUNG CANCER GROWS BY DIRECT SPREAD, DOES IT LOOK LIKE
18 WHAT YOU'VE DESCRIBED IN MS. HENLEY'S CASE?

19 A. NO.

20 Q. YOU WERE ASKED SOME QUESTIONS ABOUT THE DIAGNOSIS
21 OF SMALL CELL CARCINOMA OF THE THYMUS. AND I BELIEVE YOU
22 WERE ASKED TO AGREE OR DISAGREE WITH THE STATEMENT THAT IT
23 MUST BE BASED ON EXCLUSION OF A PRIMARY TUMOR ELSEWHERE.

24 A. THAT'S WHAT IS REPORTED IN THE MEDICAL LITERATURE
25 TO BE ABSOLUTELY CERTAIN THAT IT IS A THYMIC SMALL CELL
26 CARCINOMA.

27 TO BE CERTAIN THAT THAT'S WHAT IT IS AND TO BE
28 ABLE TO WRITE IT UP, I THINK STILL THAT HAS TO BE THE GOLD
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0079 1 STANDARD.

2 Q. AND AM I CORRECT THAT IN THAT SAME REFERENCE, THE
3 STATEMENT IS MADE THAT "DIAGNOSIS OF SMALL CELL CARCINOMA OF
4 THE THYMUS IS OFTEN MADE RETROSPECTIVELY OR ON POSTMORTEM"?

5 A. YES.

6 Q. WHAT DOES "RETROSPECTIVE" MEAN?

7 A. WELL, IT MEANS AFTER THE FACT, AFTER THE PATIENT
8 HAS PRESENTED, AFTER THEY HAVE DIED, AFTER YOU HAVE MORE
9 INFORMATION, SUCH AS A POSTMORTEM EXAMINATION, TO HAVE A
10 CHANCE, FOR INSTANCE, IN THIS CASE, TO LOOK AT THE LUNGS
11 VERY CAREFULLY, TO SUBMIT MANY, MANY SECTIONS FROM THE LUNG
12 TO BE SURE THAT THERE IS NO HIDDEN SITE.

13 Q. IN ESSENCE, IS WHAT YOU CONSIDERED AND WHAT YOU
14 DESCRIBED FOR US WITH RESPECT TO WHETHER THIS TUMOR STARTED
15 IN THE LUNG OR SOMEWHERE ELSE ESSENTIALLY HOW YOU WOULD GO
16 ABOUT MAKING A DIAGNOSIS OF EXCLUSION?

17 A. I'M SORRY. I DON'T UNDERSTAND THE QUESTION.

18 Q. IS THE PROCESS THAT YOU EMPLOYED TO FORM YOUR
19 OPINIONS IN THIS CASE MORE OR LESS ONE OF A DIAGNOSIS OF
20 EXCLUSION?

21 A. WELL, YES, IT IS. WE'VE LOOKED I THINK FAIRLY
22 HARD AT THE LUNG. I SUPPOSE THE ONLY OTHER THING TO HAVE
23 BEEN DONE WAS TO HAVE TAKEN MULTIPLE BRONCHOSCOPIC
24 SPECIMENS, WHICH WASN'T DONE BECAUSE NOTHING WAS SEEN THAT
25 MERITED TAKING ANY SAMPLES. BUT THAT'S VIRTUALLY THE ONLY
THING THAT HASN'T BEEN DONE THAT COULD HAVE BEEN DONE AT THE
TIME, BUT NOTHING WAS SEEN.

28 YOU POSSIBLY COULD HAVE TAKEN SOME BLIND BIOPSIES
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0080 1 TO KNOW FOR SURE. BUT IN FACT, IN THE VAST MAJORITY OF
2 CASES, IT DOESN'T MAKE ANY DIFFERENCE IN THE TREATMENT.

3 SO MANY TIMES A SURGEON OR A BRONCHOSCOPIST, ONCE
4 THE DIAGNOSIS IS MADE, TO GO BACK AND DETERMINE ABSOLUTELY
5 WHETHER THERE WAS ANYTHING IN THE LUNG IS SIMPLY AN ACADEMIC
6 EXERCISE. IT MAY BE IMPORTANT, BUT IT'S NOT IMPORTANT FOR
7 THE MANAGEMENT OF THAT PATIENT, BECAUSE IT'S GOING TO BE
8 EXACTLY THE SAME.

9 Q. AND BASED ON EVERYTHING YOU HAVE REVIEWED, YOUR
10 BACKGROUND, YOUR EDUCATION, YOUR EXPERIENCE, ARE YOU
11 REASONABLY CERTAIN THIS TUMOR DIDN'T START IN THE LUNG?

12 A. I'M REASONABLY CERTAIN.

13 Q. FINALLY, DOCTOR, YOU MENTIONED TESTIFYING IN
14 COURT IN THE PAST.

15 HAVE YOU EVER TESTIFIED IN COURT IN A CASE
16 INVOLVING TOBACCO ISSUES?

17 A. NO.

18 MR. OHLEMAYER: THAT IS ALL I HAVE.

19 THANK YOU, YOUR HONOR.

20 THE COURT: ANYTHING FURTHER?

21 MS. CHABER: JUST A LITTLE BIT.

23 RECROSS-EXAMINATION
24 BY MS. CHABER: Q. DOCTOR, YOU SAID YOU MADE
25 YOUR EVALUATION BASED ON REPORTED SYMPTOMS, BASED ON THE
26 RECORDS, BASED ON THE X-RAYS, BASED ON THE CT SCANS, BASED
27 ON THE PATHOLOGY, BASED ON ALL THAT INFORMATION.
28 IS THAT WHAT YOU JUST SAID TO MR. OHLEMAYER?
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0081
1 A. YES.
2 Q. DOCTOR, ISN'T IT TRUE THAT MS. HENLEY'S DOCTORS,
3 HER TREATING DOCTORS, THE PEOPLE WHO MADE THE DECISIONS IN
4 THIS CASE ABOUT WHAT SHE HAD, TOOK INTO CONSIDERATION HER
5 SYMPTOMS, HER MEDICAL RECORDS, HER CHEST X-RAYS, HER CT
6 SCANS AND THE PATHOLOGY AND CAME UP WITH A CONCLUSION THAT
7 SHE HAD LUNG CANCER?
8 A. SOME OF THEM, BUT NOT ALL OF THEM.
9 Q. DOCTOR, THE SURGEON WHO OPERATED ON MS. HENLEY
10 CAME INTO COURT.
11 A. YOU UNDERSTOOD THAT; RIGHT?
12 A. I ASSUMED THAT.
13 Q. AND HE INDICATED THAT HE CONSIDERED ALL OF THOSE
14 THINGS, LOOKED AT MS. HENLEY, TOUCHED MS. HENLEY, HAD HIS
15 HANDS IN HER CHEST AND THAT SHE HAS LUNG CANCER.
16 A. WERE YOU AWARE OF THAT?
17 A. I WAS NOT AWARE OF THAT.
18 Q. NOW, DOCTOR, WHEN YOU'RE TALKING ABOUT LUNG
19 TUMORS AND SMALL CELL LUNG TUMORS, THERE CAN BE AN OCCULT
20 PRIMARY; CORRECT?
21 A. CORRECT.
22 Q. AND "OCCULT" MEANS THAT IT'S HIDDEN?
23 A. THAT'S RIGHT.
24 Q. AND IN FACT, ONE OF THE REASONS STATED FOR MAKING
25 THYMIC CANCER A DIAGNOSIS OF EXCLUSION IS THE FACT THAT
SMALL OR OCCULT LUNG PRIMARIES IN THE PRESENCE OF BULKY
MEDIASTINAL DISEASE CAN BE LUNG CANCER?
28 A. YES.

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0082
1 Q. AND THEY ALSO INDICATE THAT SMALL CELL CARCINOMA
2 OF THE LUNG -- SMALL CELL CANCER OF THE LUNG IS KNOWN TO
3 METASTASIZE MASSIVELY TO THE MEDIASTINUM --
4 A. THAT'S CORRECT.
5 Q. -- CORRECT?
6 A. BUT IN THIS CASE, THE SPREAD TO THE MEDIASTINUM
7 IS NOT MASSIVE. THERE IS ONE MASS THAT IS 6 CENTIMETERS IN
8 SIZE, BUT NO OTHER LYMPH NODES. AND THAT IS A VERY LARGE
9 SIZE FOR AN OCCULT PRIMARY.
10 Q. IN FACT, THAT CANCER WAS STAGED AS A STAGE 3
CANCER, WASN'T IT, DOCTOR?
11 A. I WOULD ASSUME SO, IF THEY ASSUMED THAT IT'S LUNG
CANCER, BUT I DON'T.
12 MS. CHABER: NOTHING FURTHER.
13 THE COURT: ANYTHING FURTHER?
14 MR. OHLEMAYER: JUST A QUESTION.

18 FURTHER REDIRECT EXAMINATION
19 BY MR. OHLEMAYER: Q. DOCTOR, YOU HAD AN
OPPORTUNITY TO READ AND REVIEW THE MEDICAL RECORDS PREPARED
21 BY DR. HAGEN AND HIS STAFF AT THE TIME THEY PERFORMED THE
22 PROCEDURES ON MS. HENLEY?
23 A. YES.
24 Q. AND READ THE DEPOSITION THAT WAS TAKEN WHERE HE
25 DESCRIBED HIS WORK IN THE CASE?

26 A. YES.

27 MR. OHLEMAYER: THAT'S ALL I HAVE.

28 THANK YOU, YOUR HONOR.

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0083

1 THE WITNESS: AND I SEEM TO RECALL THAT HIS
2 DISCHARGE SUMMARY SAID THAT IT WAS "SMALL CELL CARCINOMA,
3 PRIMARY SITE UNKNOWN."

4 MR. OHLEMAYER: Q. THAT'S A MEDICAL RECORD
5 PREPARED AT THE TIME OF THE TREATMENT?

6 A. THAT'S RIGHT.

7 MR. OHLEMAYER: THAT'S ALL I HAVE, YOUR HONOR.

8 THE COURT: ANYTHING FURTHER?

9 MS. CHABER: NO.

10 THE COURT: MAY THE DOCTOR BE EXCUSED?

11 MS. CHABER: YES.

12 MR. OHLEMAYER: YES. THANK YOU, DOCTOR.

13 THE COURT: OKAY. DOCTOR, YOU ARE EXCUSED.

14 (WITNESS EXCUSED)

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